KV-M1100D **RM-818**

SERVICE MANUAL

AEP Model Chassis No. SCC-F04A-A



MODELS OF TH	E SAME SERIES
KV-M1100D	KV-M1100E
KV-M1100A	
KV-M1100B	

[KV-M1100D]

B/G/H/I/L

Television system Color system

Channel coverage

UHF: 21-69

PAL B/G VHF: E2-E12

UHF: E21-E69

CABLE TV (1): S1-S41

Frequency meduim

Mono-Standard

Picture tube

Approx. 28 cm

(Approx. 26 cm picture measured diagonally)

Inputs

⊕ 1 21-pin connector:

CENELEC standard including RGB input.

 $Y: 1Vp-p\pm 3dB 75ohm$

 $C: 0.3Vp-p\pm3dB 75ohm$

Outputs

21-pin connector: CENELEC standard

Earphones jack: minijack

Sound output

Power consumption 56 Wh

EE-1 CHASSIS

MODELS OF TH	E SAME SERIES
KV-M1100D	KV-M1100E
KV-M1100A	
KV-M1100B	

SPECIFICATIONS

PAL, SECAM, NTSC3.58, NTSC4.43

ITALIA VHF: A-H2 (C)

CABLE TV (2): S01-S05, M1-M10, U1-U10

F1: Video 38.9MHz

F1: Audio 33.4MHz

Trinitron tube

90 °-degree deflection

2.5W (Music)

Dimensions

Approx. $296.2 \times 261.0 \times 328.5$ mm

(w/h/d)

Weight

Approx. 8.5 kg

Supplied accessories

RM-818 Remote Commander (1)

IEC designation R6 batteries (2)

Terescopic antenna (1)

DC cord (1) AC cord (1)

[RM-818]

Remote control system infrared control

Power requirements

3V dc

2 batteries IEC designation

R6 (size AA)

Dimentions

Approx. $44 \times 25.3 \times 108.4$ mm (w/h

Weight

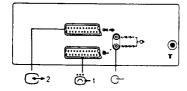
Approx. 105g (including batters)

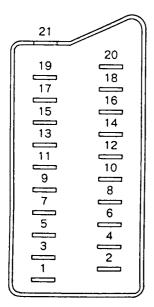
Design and specifications are subject to change without notice.

> TRINITRON®COLOR TV SONY



21 pin connector (🖰 1, 🕞 2)





Pin No.	1	2	Signal	Signal level
1	0	0	Audio output B (right)	Standard level: 0.5Vrms Output impedance: Less than 1kohm*
2	0	0	Audio input B (right)	Standard level: 0.5Vrms Input impedance: More than 10kohms*
3	0	0	Audio output A (left)	Standard level: 0.5Vrms Output impedance: Less than 1kohm*
4	0	0	Ground (audio)	
5	0	0	Ground (blue)	
6	0	0	Audio input A (left)	Standard level: 0.5Vrms Input impedance: More than 10kohms*
7	0	•	Blue input	0.7V ± 3dB, 75ohms, positive
8	0	0	Function select (AV control)	High state (9.5 – 12V): Part mode Low state (0 – 2V): TV mode Input impedance: More than 10kohms Input capacitance: Less than 2 nF
9	0	0	Ground (green)	
10	0	0	Open	
11	0	•	Green	Green signal: 0.7V ± 3dB, 75ohms, positive
12	0	0	Open	
13	0	0	Ground (red)	
14	0	0	Ground (branking)	
15	0	-	Red input	0.7V ± 3dB, 75ohms, positive
	_	0	(S signal) croma input	0.3V ± 3dB, 75ohms, positive
16	0	•	Blanking input (Ys signal)	High state (1 - 3V) Low state (0 - 0.4V) Input impedance: 75ohms
17	0	0	Ground (video output)	
18	0	0	Ground (video input)	
19	0	0	Video output	1V ± 3dB, 75ohms, positive Sync: 0.3V (- 3, +10dB)
20	0.	-	Video input	1V ± 3dB, 75ohms, positive Sync: 0.3V (- 3, +10dB)
	-	0	Video Input/Y (S signal)	1V ± 3dB, 75ohms, positive Sync: 0.3V (- 3, +10dB)
21	0	0	Common ground (plug,	shield)

O connected

unconnected (open)

* at 20Hz - 20kHz

4 pin connector (🕞)

Pin No.	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB, 75ohms, positive Sync: 0.3V 🗟 dB
4	C (S signal) input	0.3V ± 3dB, 75ohms, positive

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SAFETY-RELATED COMPONENT WARNING!!

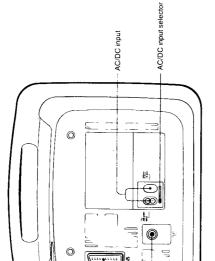
COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1 GENERAL

This section is extracted from instruction manual.

Preface 35

ВB



0000

21-pin connector

Programme position number Selected Input sources (TV, AV1, RGB, AV2, S video)

Programme position label

Channel frequency number (TV, cable TV)

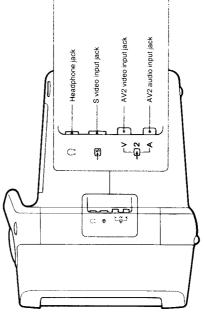
Broadcasting system

Picture/volume adjustment display

Remote control detector/ Standby indicator lamp

Aerial input-terminal

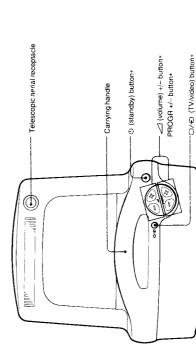
The symbol marks that appear at the side of the TV correspond to the jacks located on the recessed rear of the TV. Side view



Rear of the TV

Identifying the Parts

Front controls and screen displays



The same function buttons are also located on the Remote Commander.

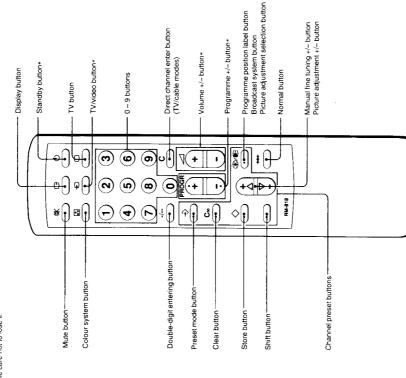
34 Preface

Top of the TV

Note the house the TV to a power outlet the TV will automatically go to standby mode, and the standby indicator lamp will light.

Remote Commander RM-818

Most of the functions of the TV require the Remote Commander. Take care not to lose it.

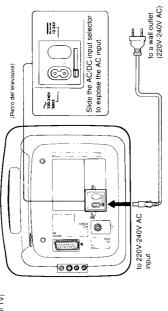


The same function buttons are also located on the TV.

Chapter 1: Preparing for Use Setting Up Your TV

Using household (AC) current

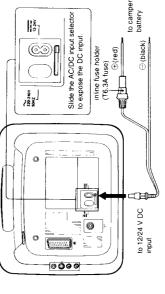
To watch your TV using household current, attach the supplied AC power cord as shown below. (Rear of TV)



Using a car battery

You can use the power from your camper van's battery by attaching the supplied DC power cord to the battery. (Attach the cord using clips designed for this purpose — not supplied).





For car use, the TV is designed to be operated on negative ground 12V-24V DC only.

- Use the supplied DC power cord manufactured by Sony.
 The polarity of other manufacturers' cord plugs may be different.
- When you are not using the TV, disconnect the DC power cord. If you don't, battery power will be lost, even in standby mode.
- In hot temperatures, do not leave the TV in the car for a long time.
 - If colour separation occurs when the TV is connected to a DC power source, switch to household (AC) current.

When battery power falls below 12V, the TV automatically switches off and goes to standby mode (The standby lamp binks to several seconds, then remains It). First hearbage the battery, then press the PROGR +- button on the TV on press \square on the Remote Commander to turn the TV on

- Caution

 Do not connect the DC power cord to the AC power input, or the AC power cord to the DC power input.
- If you connect the DC power cord to the AC power oulet, or to the incorrect pole of the camper van's battery, the inline (TG.AA) tuse will burn out. Replace a burned-out fuse only with the same type fuse.

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40 Chapter 1: Preparing for Use





If you do not know the channel numbers of the stations you want to preset, follow the steps below ("Presetting channels automatically"). If you know the channel numbers, follow the steps on pp. 42, 43 ("Presetting channels directly").

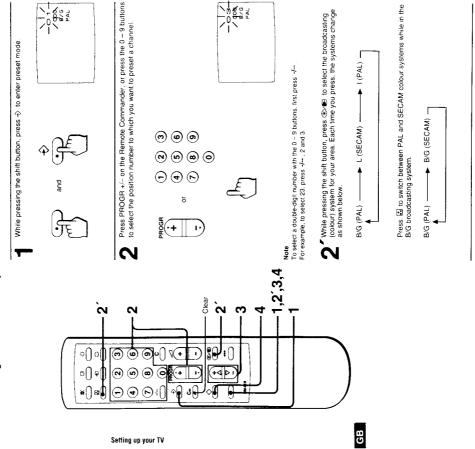
Presetting channels automatically

Insert the base of the aerial into the receptacle at the top of the TV. making sure it is inserted completely.

(Side of TV)

Attaching the telescopic aerial (supplied)

to aerial receptacle



33 Chapter 1: Preparing for Use Note

To receive cable TV, contact your local cable company for cable connection.

0000

to aerial input terminal

- 6 -

 ${f 2}$ Attach the aerial connector plug to the aerial input terminal (rear of TV).

(Rear of TV)

Presetting channels directly

While pressing the shift button, press manual fine funing +/- to search for channels forward or backward automatically. The TV will search for available channels, beginning with the lowest available frequency number (VHF/UHF/UHF/UHF) and stop when a channel is tuned in.

3

0 0 N A

To clear a programme position
While pressing the shift button,
press Car. The programme position will be
cleared, and the channel frequency number
To Will be selected.
To axit preset mode
While pressing the shift button,
press 3. To continue searching without presetting a tuned-in channel Press manual fine tuning +/~ again.

-2,4 _2, _5 8 က ® ® ® ® ⊗ ® ® Ø **V**(+ \odot ال الله الله الله الله o() • () *() =:

Presetting channels

80

While pressing the shift button, press \diamondsuit to preset the channel which is tuned in.

Press PROGR 4/- on the Remote Commander, or press 1 to select position number 1. FE. 1,2,5

Z S S A

When you know the number of the channel you want to preset, follow the steps below to preset channels directly. For example, preset channel 3 onto position number 1.

While pressing the shift button, press 💠 to enter preset mode

PROGRES 1.

Note To select a double-digit number with the 0 – 9 buttons, first press $-\!\!\!/-$. For example, to select 23, press $-\!\!\!/-$, 2 and 3

While pressing the shift button, press ⊛ © to select the broadcasting (colour) system for your area. Each time you press, the systems change as shown below.



Press \blacksquare to switch between PAL and SECAM colour systems while in the B/G broadcasting system.



-7 -

The channel is now preset and you will return to TV mode automatically.

To preset other channels Repeat steps 1 ~ 4.

ВB

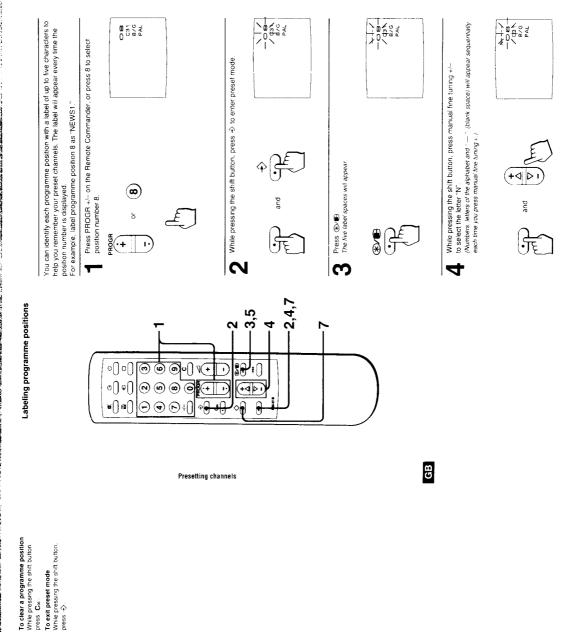
Chapter 1: Preparing for Use | 41

700 A

Press C to select the mode you want to preset. Press once to select regular TV mode; press twice to select cable TV mode.

THE RESERVE AND THE

TV mode



Chapter 1: Preparing for Use | 43

44 Chapter 1: Preparing for Use

-8-

-0-1 888 A

0

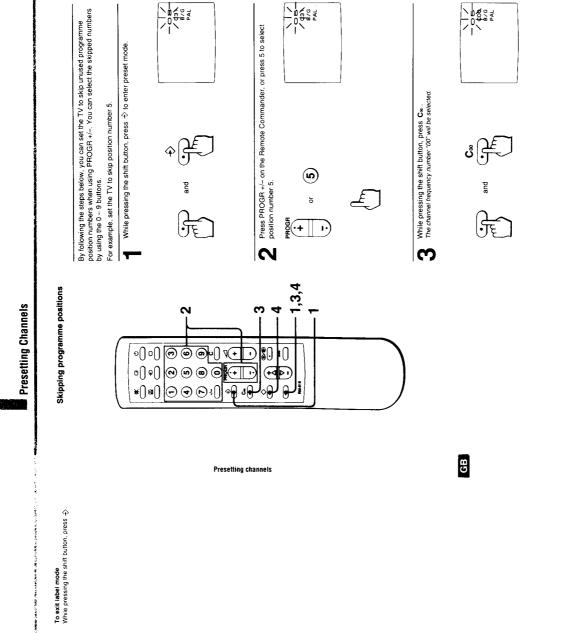
The channel is now preset and you have returned to TV mode. To preset other channels Repeat steps 1 – 5.

While pressing the shift button, press \Diamond to preset the channel.

S

Cable TV mode

Press 0 and 3 to tune in channel 3 (you must press 0).



Repeat steps 4 and 5 to set the E, W, S and 1.

9

Press ⊛ to set the first character "N."

S

While pressing the shift button, press \diamondsuit to store the label. You will return to TV mode automatically.

NEWS 1

F.

To set other labels Repeat steps 1 – 7.

NEWS3

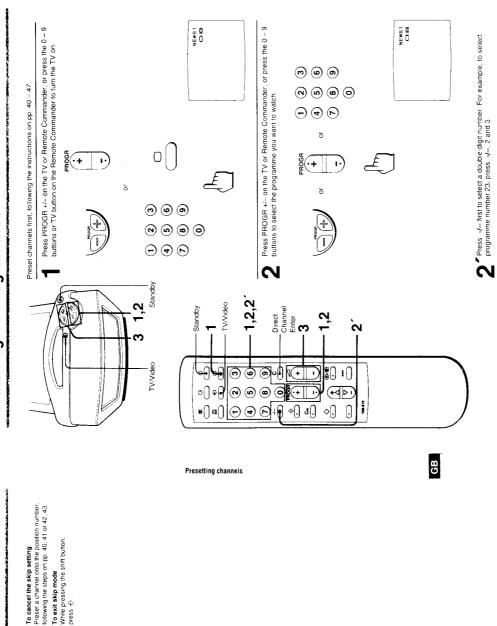
Watching TV Programmes Chapter 2: Operating Your TV

To exit skip mode
While pressing the shift button, press ⊕

0.5

To skip other channels Repeat steps 1 ~ 4.

While pressing the shift button, press \diamondsuit to set the position to be skipped. You will return to TV mode automatically. The next time you press PROGR +--, position 5 will be skipped



Chapter 1: Preparing for Use | 47

-10-

Adjusting the Picture

Use the picture adjustment feature to adjust the TV or video input picture to your laste.

video equipment

Ness (J-Q-O) to Select the video input
mode. E1 (AV 1). — (FIGB). — 22
(AV 2). — (B. (5 input) and IV modes will be
selected in sequence. For further details, see
pages 52 — 55.

To view the input from connected

Press Z +/- on the TV or Remote Commander to adjust the volume.

3

Press ② E to enter picture adjustment mode. Press repeatedly to select the quality you want to adjust. (Picture, colour, bright, hue [NTSC colour system only] and sharpness are selected in sequence.)



*() @() (-) (-) (-) (-) (-) (-) (-) (-)

To turn off the TV
Press (*) on the TV or Remote Commander to
time TV to standby mode.
To turn the power off completely, disconnect the
power cord.

increase

7 decrease

To listen through a headphone Connect a headphone (not supplied) to Ω (the headphone jack) at the side of the TV (page 35).



Press picture adjustment +/- to make the adjustment.

2

- Normal

8 1 1



Watching TV programmes

TV mode

600

 \odot

 \bigcirc \bigcirc \bigcirc

⊗ ⊚ ⊚

Press **C** to select the mode you want to watch. (Press once to select regular TV mode, press twee to select cable TV mode.) Then press the 0 – 9 buttons to Select the channel.

The channel will be received, but it is not preset to any position number.

If you know the channel frequency number, you can tune in a channel temporarily, without presetting.

To tune in a channel temporarily

Press + to increase the volume. Press - to decrease the volume.





Æ	7	

decrease increase	Press + button	To increase picture contrast with vivid colour	To increase colour intensity	To increase brightness	Skin tones become greenish	To increase sharpness
	Press – button	To decrease picture contrast with soft colour	To decrease colour intensity	To decrease brightness	Skin tones become purplish	To decrease sharpness
(+d D1)	Picture quality	(picture)	(colour)	⇔ (bright)	(NTSC only)	(sharpness)

GB

The display will disappear automatically after a few seconds. If you do not press any

(sharpn

To restore the original settings

Press ***.
All the qualities will be restored to their original factory-set levels.

Chapter 2: Operating Your TV | 49

Nate To select a double-digit number, press -/-- before pressing the 0 $^{-}$ 9 buttons.

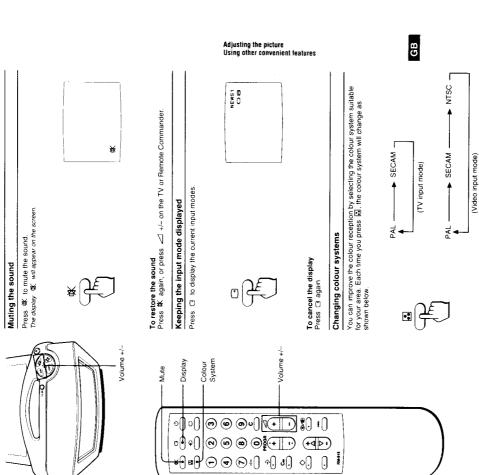
Cable TV mode

S04

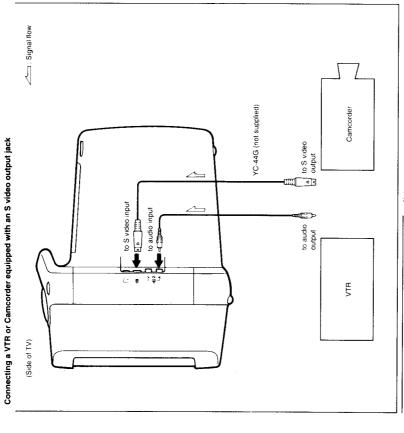
(-) (-) (-)

-11-





Chapter 3: Making Other Connections
Connecting Optional Equipment



Select S video input mode by pressing CI/E) on the TV or ±0 or the Remale Commander until +8 appears on the screen. Each time you press, the screen display will change as follows: Operating your equipment

 Be sure to fully insert the plugs into the jacks. A loose connection may cause hum and noise. You can watch the image from a VTR by connecting through the Tf terminal at the rear of the TV. In this case, press to select TV mode, and then select Channel 0.

Before connecting, be sure to turn off all equipment.

(S video) (AV2) (AV1) (RGB)

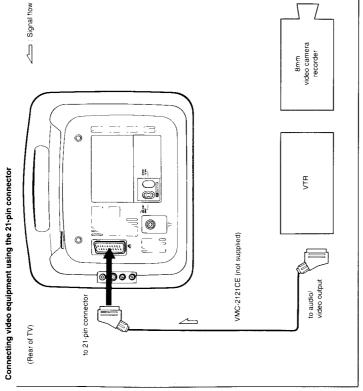
2 Set the equipment to playback mode.

To return to TV mode
Press □ on the Remote Commander to return directly to TV mode.

52 Chapter 3: Making Other Connections

Chapter 2: Operating Your TV | 51





Connecting Optional Equipment

(Side of TV)

Select AV 1 mode by turning on the equipment. Operating your equipment

To return to TV mode

Tess C on the Remote Commander to return directly to TV mode, or turn the video equipment off.

2 Set the equipment to playback mode.

g B

Connecting optional equipment

Camcorder

Signai flow VMC-715KM (not supplied) Connecting a VTR or Camcorder not equipped with an S video output jack to video output

to audio input to video input to audio output ΛTR

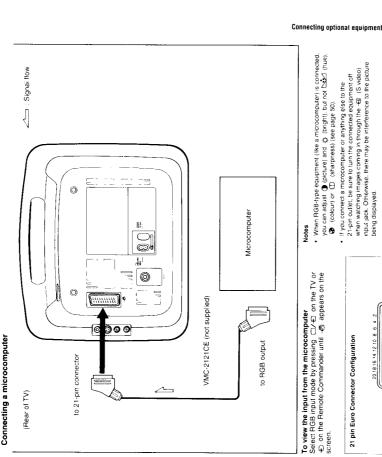
1 Select AV 2 mode by pressing CJ∕€ on the TV or ∙€ on the Remote Commander until ∙€ 2 appears on the screen. Operating your equipment

To return to TV mode Press ○ on the Remote Commander to return directly to TV mode.

2 Set the equipment to playback mode.

Specifications & Receivable channels Troubleshooting

ЗВ



To view the input from the microcomputer Select RGB input mode by pressing □/€) on the TV or ⊕ on the Remole Commander until ♣ appears on the screen.

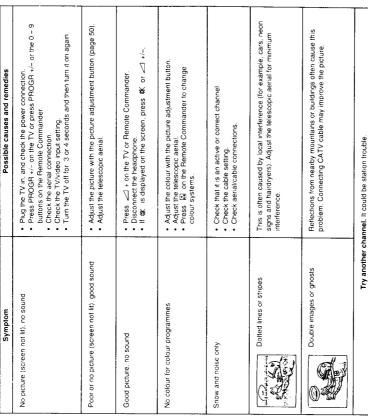
000000000000 21 pin Euro Connector Configuration

When RGB-type equipment (like a microcomputer) is connected, you can adjust ⊕ (picture) and ⇔ (trught), but not ဩ (flue).

 (colour) or □ (sharpness) (see page 50).

If you connect a microcomputer or anything else to the 21-pin outlet, be sure to turn the connected equipment off when watering magas coming in through the +B_(S video) mpul gack. Otherwise, there may be interference to the picture being displayed.

89

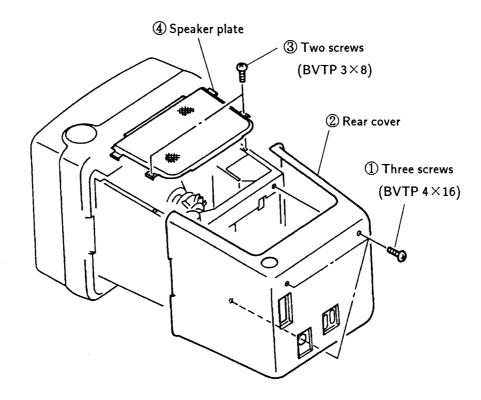


Disturbances in picture and sound can often be eliminated by checking the symptoms and following the suggestions listed here. If the problem still cannot be solved, contact your nearest service facility.

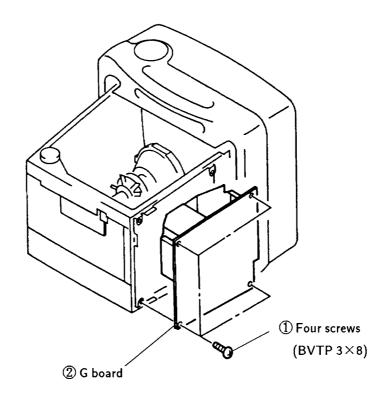
Troubleshooting

SECTION 2 DISASSEMBLY

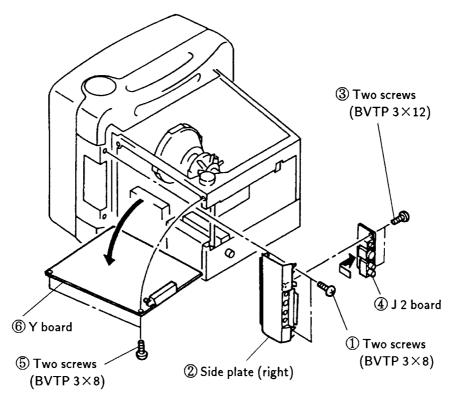
2-1. REAR COVER REMOVAL



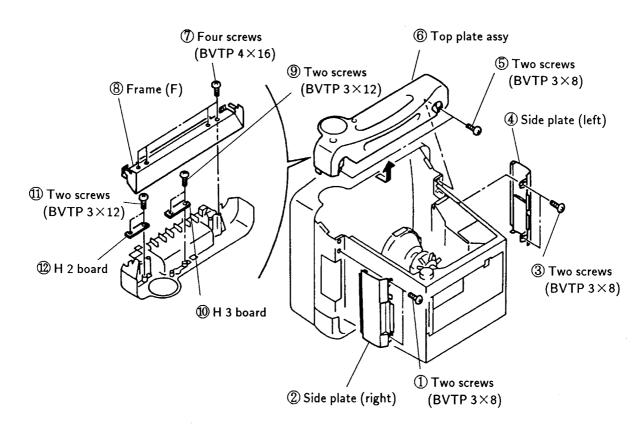
2-2. G BOARD REMOVAL



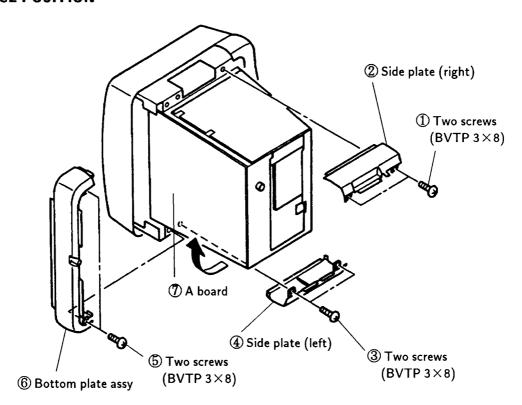
2-3. J 2 AND Y BOARD REMOVAL



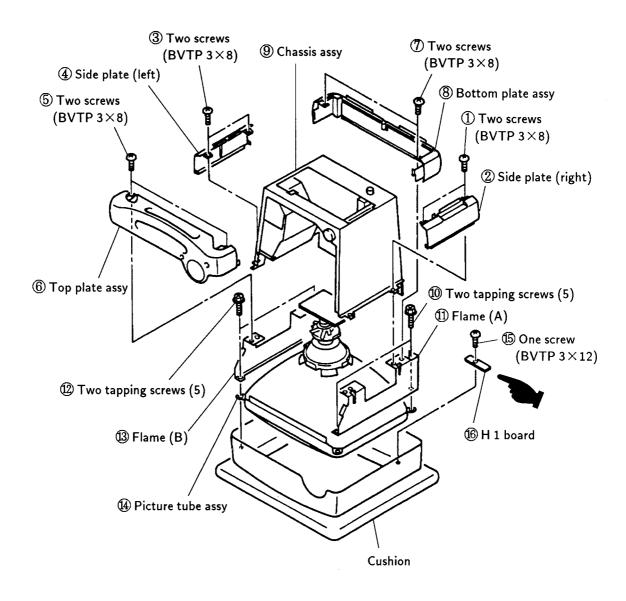
2-4. H 2 AND H 3 BOARD REMOVAL



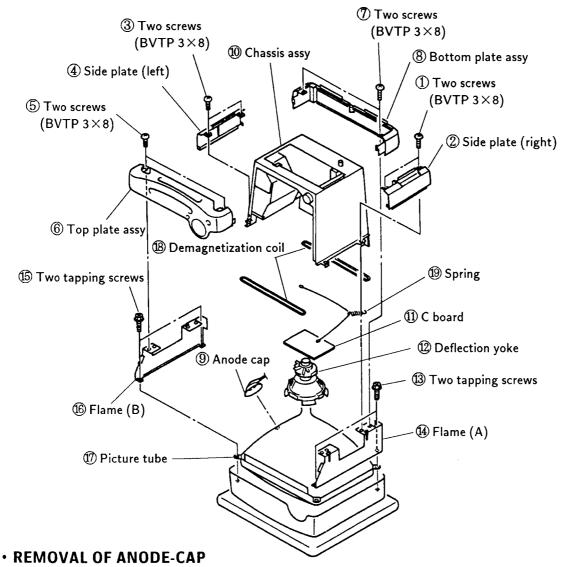
2-5. SERVICE POSITION



2-6. H 1 BOARD REMOVAL

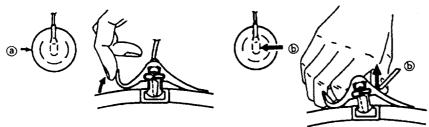


2-7. PICTURE TUBE REMOVAL

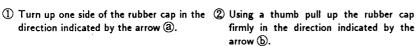


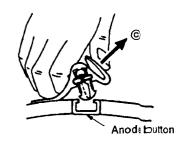
NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT chield or carbon painted on the CRT, after removing the anode.

REMOVING PROCEDURES



direction indicated by the arrow @.

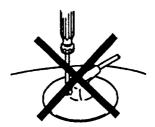


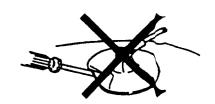


3 When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ©.

HOW TO HANDLE AN ANODE-CAP

- Don't hurt the surface of anode-caps with sharp shaped material!
- Don't press the rubber hardly not to hurt inside of anode-caps! A material fitting called as shatter-hook terminal is built in the rubber.
- Don't turn the foot of rubber over hardly! The shatter-hook terminal will stick out or hurt the rubber.





SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.
 The controls and switch below should be set as follows unless otherwise noted:

● CONTRASTcontrol...... 80%(or Normal by commander)

□ BRIGHTNESS control 50%

Perform the adjustments in order as follows:

- 1. Beam Landing
- 2. Convergence
- 3. Focus
- 4. Screen (G 2) and White Balance

Note: Test Equipment Required.

- 1. Color bar/Pattern Generator
- 2. Degausser
- 3. DC Power Supply
- 4. Digital multimeter
- 5. Oscilloscope

Preparation:

- Set the side of the unit with the PICTUE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser..

3-1. BEAM LANDING

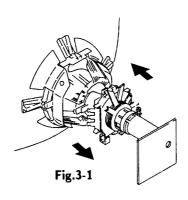
Demagnetize with a degausser

1. Input a raster signal with the pattern generator.

 $\begin{array}{c} \text{CONTRAST} \\ \text{BRIGHTNESS} \end{array} \bigg\} \text{normal}$

- 2. Turn the raster signal of the pattern generator to red.
- 3. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides evenly.

 (Fig.3-1 to 3-3)
- 4. Move the deflection yoke forward, and adjust so that the entire screen becomes red. (Fig.3-1)
- 5. Switch over the raster signal to blue and green confirm the condition.
- 6. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
- 7. When landing at the corner is not right, adjust by using the disk magnets. (Fig.3-4)



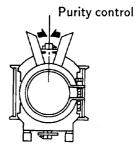


Fig.3-2

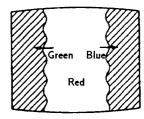
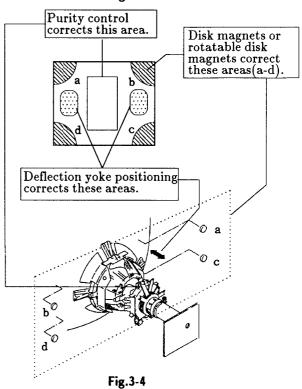


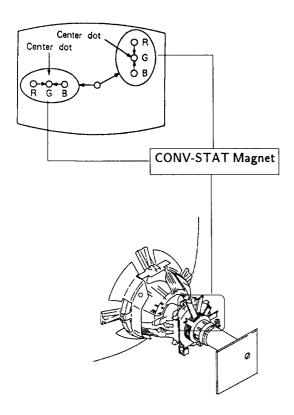
Fig.3-3



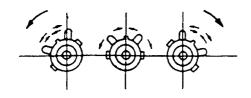
3-2. CONVERGENCE

Preparation:

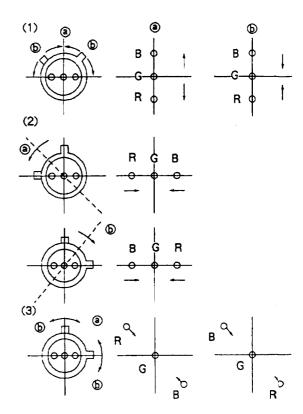
- Before starting, perform FOCUS, H.SIZE, and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.
- (1) Horizontal and Vertical Static Convergence



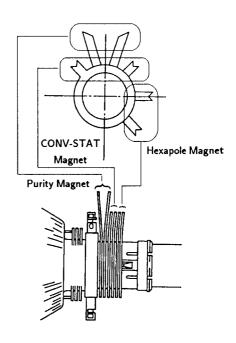
- 1. Adjust CONV-STAT Magnet to coincide red, green blue dots on the center of screen.
- Tilt the CONV-STAT magnet and adjust static convergence to open or close the CONV-STAT magnet.



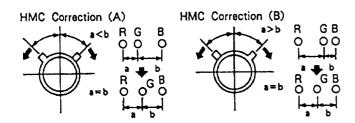
2. When the CONV-STAT magnet is moved in the direction of arrow (a) and (b), Red, Green and Blue dots move as shown below.



* IF the red and green dots do not coincide with blue dot, adjustment with BMC (6-poles) magnet.



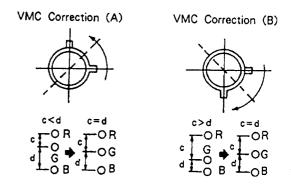
- HMC and VMC correction for BMC (6-polse) magnet.
- 1. HMC (Horizontal Misconvergence) correction and motion of the Electron Beam with the BMC (6-poles) magnet.



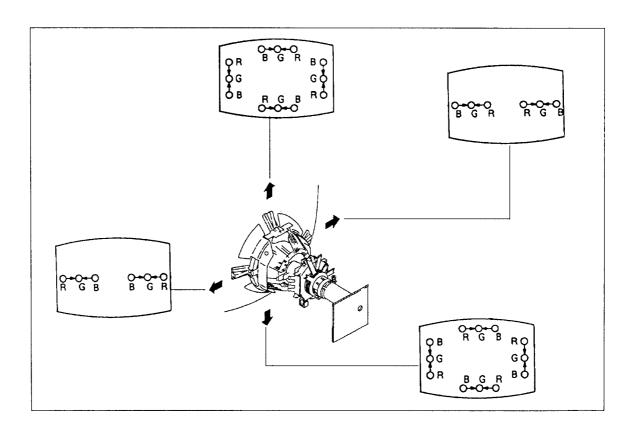
(2) Dynamic Convergence Adjustment Preparation:

- Before starting perform Horizontal and Vertical static convergence Adjustment.
- 1. Slightly loosen deflection yoke screw.
- 2. Remove deflection yoke spacers.

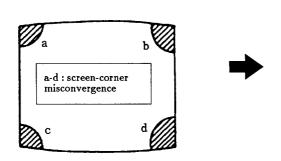
 VMC (Vertical Misconvergence) correction and motion of the Electron Beam with the BMC (6poles) magnet.

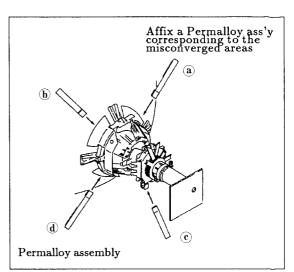


- 3. Move the deflection yoke for best convergence as shown below.
- 4. Tighten the deflection yoke screw.
- 5. Install the deflection yoke spacers.



(3) Screen-corner Convergence



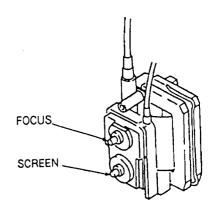


3-3. FOCUS

1. Input a monoscope signal.

 $\begin{array}{c} \text{CONTRAST} \\ \text{BRIGHTNESS} \end{array} \right\} \text{normal}$

2. Adjust FOCUS control for a best picture at the center and both sides of the screen.



3-4. SCREEN (G 2) and WHITE BALANCE AUTOMATIC ADJUSTMENT

(Adjustment with remote commander in service mode)

- (1) G 2 adjustment screen
- 1. Set picture and brightness to STANDARD.
- 2. Apply external voltage 150 VDC to each of the red, green, and blue cathodes.
- 3. Adjust the G2 control knob to a position immediately before the retrace line on the screen disappears.
- (2) White balance adjustment (See the table of service items)

Call item NOs. 13-18 in service mode and adjust each.

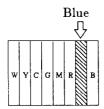
- 1. Receive the color bar place the set into service mode.
- 2. Set picture to MINIMUM and brightness to STANDARD.
- 3. Set cut-off (red, green and blue) to MINIMUM and drive (green and blue) to CENTER.

Cut-off

DRIVE

No	Item name	Data	No	Item name	Data
16	G BKG		13	R BKG	
17	B BKG	64	14	G BKG	100
18	R BKG		15	B BKG	

4. Adjust brightness compensation so that the blue stripe section of the color pattern shines dimly.



- 5. Switch the pattern generator signal to ALL WHITE.
- 6. Adjust white balance with each cut-off.
- 7. Set picture to MAXIMUM and adjust white balance with the green and blue drive.
- 8. Repeat the above until white balance between MINIMUM and MAXIMUM of picture is obtained.
- 9. Switch the pattern generator signal to the color pattern signal.
- 10. Adjust brightness compensation so that the blue stripe section on the screen shines dimly when picture is set to MINIMUM.

3-5. ADJUSTMENT PROCEDURE

(Reading memory contents)

- (1) Confirm that the set has started up in the user mode. (CB). Press the picture quality adjustment key *** to leave the set in normal state. Turn off the power the set.
- (2) Turn on the power to the set white holing down the service switch located on the rear panel of set. Confirm that SERVICE is indicated on the screen.
- (3) press the

 key. Confirm that indication R on the upper right corner of the screen blinks.
- (4) Press the C key while indication R is blinking. Thus, the contents of NVM are read in.

Note: If IC 306 is a new one (e.g., entirely new one immediately after replacement), do not execute steps (3) and (4) above.

3-6. ADJUSTMENT PROCEDURE

(Writing the contents of adjustment into memory) When adjustments are completed.

- (1) Press the of key Confirm that indication W on the upper right corner of the screen blinks.
- (2) Press the C key while indication W is blinking. W stops blinking and the STBY LED lights. Writing to memory is completed when W and LED go out.

NO	Item name	Data
13	R DRIVE	0~127
14	G DRIVE	0~127
15	B DRIVE	0~127
16	G BKG	0~255
17	B BKG	0~255
18	R BKS	0~255

SECTION 4 CIRCUIT ADJUSTMENTS

Terminate service mode

Execute read or write

Data up

Data down

4-1. COMMANDER OPERATION IN SERVICE MODE

[Electrical adjustment in service mode]

Electrical adjustments for service with this type of model can be accomplished by using the remote commander RM-818 included with the set.

7

(8)

0

0

3

(6)

(9)

TRINITRON

SONY

Figure: Key assignments in service mode

Write to memory

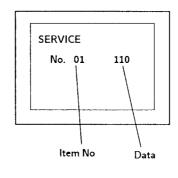
Increment item NO.

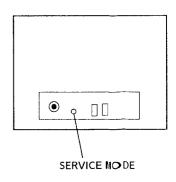
Decrement item NO.

Read from memory

- (1) Unusable keys
- ① 2, 5, 7, 8, 9, 0 among numeric keys
- ② \Rightarrow C₀₀ \diamondsuit , ③, \implies (+/-) These keys are asserted when the key is pressed while holding down the \bigcirc key.
- (2) Usable keys (incl. those which do not change the meaning)
- ① 🖸
- 2 +D, O
- 30
- 4 PROGR (+/-)
- ⑤ ⊕, ⊕ (+/-)
- **6** +--
- (7) \triangle (+/-)

Screen in service mode





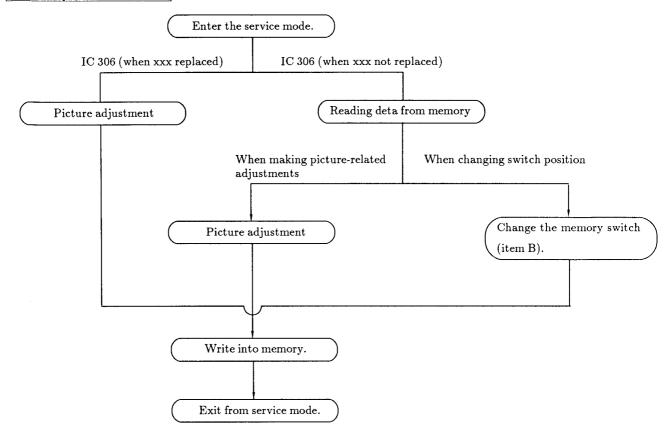
<CAUTION>

before releasing.)

The service mode is used to prohibit the following.

- (1) Data writing in the non-signal condition.
- (2) Releasing the service mode when the power supply h_{ls} been turned off with the commander. (Be sure to turn off the main power supply of the unit
- (3) Power off during writing (while the LED is lit)
- (4) Switching of the color system during service item $N \cdot 1$ (VC O)
- (5) Data writing during the NTSC 443 mode.

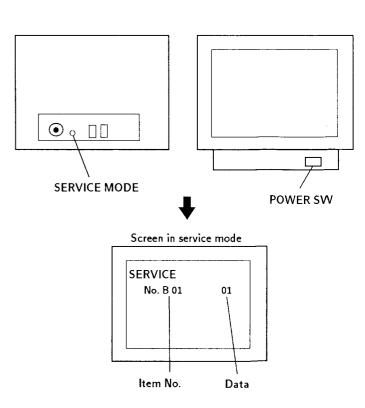
How to adjust in service mode



Note: Do not turn off the power before writing adjustment data into memory. If the power is off, your adjustment data cannot be stored in memory. Always be sure to write data into memory after making adjustments.

[Basic adjustment in service mode]

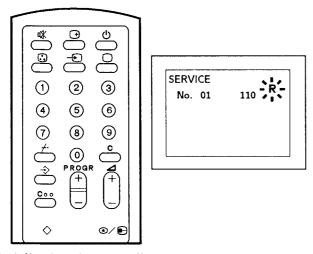
- 1. Entering the service mode
- ① Insert a narrow screw-driver into the hole located on the rear cover of the TV set. When this is done, the switch located at the back of the hole is pressed.
- ② While pressing the switch, plug the power cord of the TV into the AC outlet. (Or you may turn on the power of the TV from standby state by using the remote commander.) A message "SERVICE NO. 01 00" will be displayed in green on the screen as the unit enters the service mode.



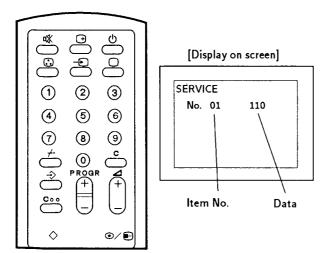
- 2. Reading data from memory
- ① Read the adjustment values of all items and switch-setting values from memory.

To do this, press the $[\not\leftarrow]$ button, then the [C] button on the remote commander. When $[\not\leftarrow]$ is pressed, the letter R blinks on the upper right corner of the screen. When [C] is pressed during this time, the letter R stops blinking and data read is terminated.

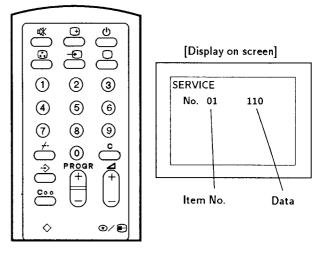
Note: When you replaced IC 306, do not read data from memory before writing new data.



- 3. Adjusting picture quality
- ① Select one of item Nos. 01-29 that you want to be adjusted by using the remote commander buttons [1] and [4].
- ② Adjust picture quality using buttons [3] and [6] until the appropriate picture quality is obtained and the set values are satisfied.

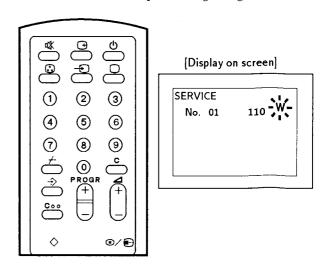


- 4. Changing switch positions
- ① Select one of item Nos. B 01-B 02 that you want to be changed by using the remote commander buttons [1] and [4].
- ② The internal switches can be changed over using buttons [3] and [6]. Normally, you specify standard values. (See the table of service items.)

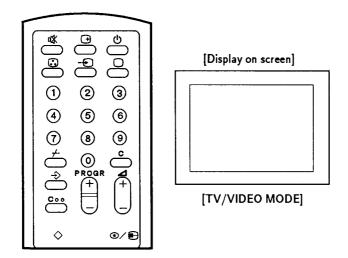


- 5. Writing to memory
- ① After adjustment, adjust the switch-setting values, then write the adjustment data to memory using the [%] button. (Data cannot be written by only using the [%] button.)

Press the [C] button while the character ":" is blinking on the screen (within 3 seconds). It takes approximately 3 seconds from when the [C] button is pressed to when writing to memory is completed. Writing to memory is completed when the character ":" stops blinking and goes out.



- 6. Terminating service mode
- ① Unplug the power cord of the TV and plug it in again. When this is done, the indication of SERVICE MODE goes out and the unit enters normal TV mode.



4-2. A BORAD ADJUSTMENTS

RF AGC Adjustment

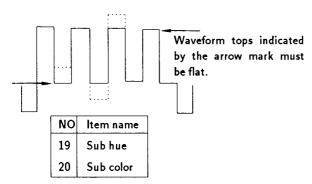
- 1. Receive the color bar signal. (RF signal)
- 2. Picture: 80%
- 3. Brightness: standard
- 4. Adjust the IF pack AGC knob until snow noise and cross modulation are eliminated.
- 5. Confirm the above in each channel.

VCO Adjustment

- 1. Receive the color bar signal and place the set into service mode.
- 2. Set a value with item 1 so that the screen beats.

SUB COLOR and SUB HUE Adjustments

- 1. Receive the color bar signal and place the set into service mode.
- 2. Connect an oscilloscope to the TP (blue output) of the circuit board C, then press the STANDARD button using the remote commander.
- 3. Next, adjust the oscilloscope waveform with item 19 and 20 until the waveform shown below is obtained. Then, set sub-color to a value three steps up.



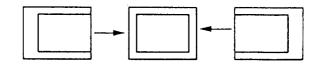
Note:

When sub-contrast, sub-hue or sub-color is adjusted, picture qualities in video 1 and video 2 are no longer STANDARD (independently stored in memory). Select video 1 and video 2 using the remote commander (TV/VIDEO) button, then press the (STANDARD) button for each.

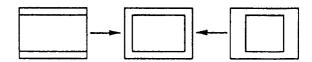
Picture qualities in video 1 and video 2 can be made to STANDARD even when you set "channel selection", standad" with buttons (8) and (12) after writing data to memory.

ADJUSTING DEFLECTION

Horizontal position (item NO. 9) 0~31 H. CENT

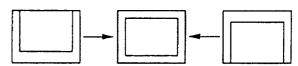


Horizontal amplitude (item NO. 10) 0∼63 H. SIZE

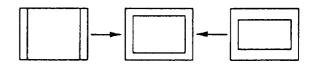


Vertical position (item NO. 2) 0~63

V. CENT



Vertical amplitube (item NOs. 3, 4) 0~255 V. SIZE



Vertical linearity (item NOs. 5, 6) L : $0\sim63$, H : $0\sim63$ V. ANGLE



Vertical character-S correction (item NOs. 7, 8)

L:0~31, H:0~255



· ITEM LIST

<u>_</u>		ă	Register name			Adju	Adjustment data			
¥9.	o. Item name	2	LABEL	Bit length	Data rangh	PAL	SECAM	NTSC	Remarks	Signal
٦	VCO	PVPU	VCOA	œ	$(-128)0 \sim (+127)255$	ADJ		ADJ	Adjusted with VCO free-run	CB
2	V center	Microprocessor	PWM output	œ	6~63	ADJ	ı	ADJ	Dummy-IM bus adjustment	SPCB
3,4	4 Note 1) V size H&L	DPU	НОГ, НОН	8+8	$L(0\sim15), H(0\sim255)$	ADJ	ţ	ADJ	V amplitude	"
5,6	6 Note 1) V linearity H&L	DPU	S1L,S1H	9+8	$L(0 \sim 63), H(0 \sim 63)$	ADJ	1	ADJ	V symmetry	"
7,	7,8 Note 1) V character-S correction H&L	u DPU	S O L, S O H	8+8	$L(0 \sim 31), H(0 \sim 255)$	ADJ	ı	ADJ	S correction	"
6	H center	DPU	SP	2	$0 \sim 31$	ADJ	1	ADJ		"
10	-	Microprocessor PWM output	PWM output	æ	$0\sim 63$	ADJ	1	ADJ	Dummy-IM bus adjustment	"
11	1 H blanking	DPU	BP	9	0~63	×	1	×		"
12	2 ACC level	PVPU	BA	9	0~63	×	1	×		CB
13	3 R drive	PVPU	WR	7	$0 \sim 127$	ADJ	1	ı	AMB to be turned off.	W/CB
14	4 G drive	PVPU	WG	7	0~127	ADJ	ţ	ı	"	"
15	5 B drive	PVPU	WB	2	$0 \sim 127$	ADJ	1	1		"
16	6 G cut-off	PVPU	SO	œ	0~255	ADJ	1	1		*
17	7 B cut-off	PVPU	CB	œ	$0 \sim 255$	ADJ	ı	1		"
18	8 Rcut-off	PVPU	CR	œ	0~255	ADJ	1	1	H	"
19	9 Sub-hue 1	DTI	FSR 1, 2	8,8		×		ADJ	Shared with hue when DTI is on.	CB
20	3 Sub-color 1	DTI	FSR 1, 2	8,8		ADJ		ADJ	Shared with color when DTI is on.	"
21	1 Sub-bright	PVPU	BR	80	0~255				Shared with bright (user controllable).	W
22	2 External RGB contrast	PVPU	RGBC	9	$0 \sim 63$	×	ţ	ţ		СВ
23	3 Y/C delay	PVPU	ΩΊ	4	$(-4)\ 0\sim (+4)8$	×	×	×		SP CB
24	4 External RGB delay Y	DTI	LDA	6	0~511	×	1	×		
25	5 External RGB delay C	DTI	CDA	6	0~511	×	1	×		
26	6 Sub-hue 2	SPU	SR, SB	9,9	0~63		×			CB
27	7 Sub-color 2	SPU	SR, SB	9,9	$0 \sim 63$		×			"
28	8 DC offset R	SPU	OR	9	$0 \sim 63$		×			"
29	9 DC offset B	SPU	OB	9	0~63		×			"
B	B 01 Auto White Balance					0: off(w	rithout IK	pulse)	0: off(without IK pulse) 1: off(IK pulse) 2: Auto cut-off 3: on	
BC	B 02 DTI					0: off	1: on			
\in	A D. I. Must be addingted for each and									

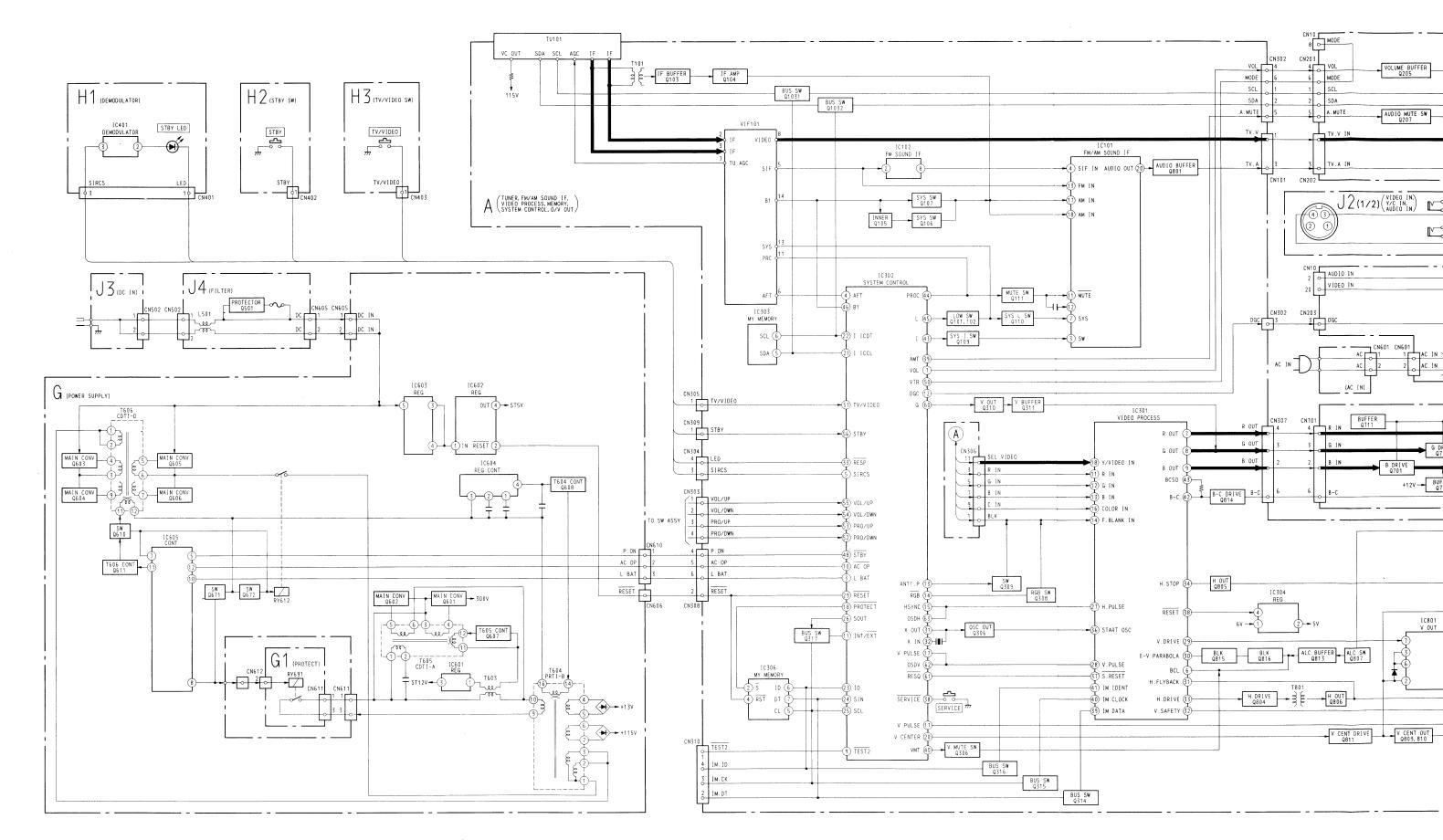
 $\overline{\mathbf{x}}:$ Must be treated as reference (fixed) value based on deviation between sets.

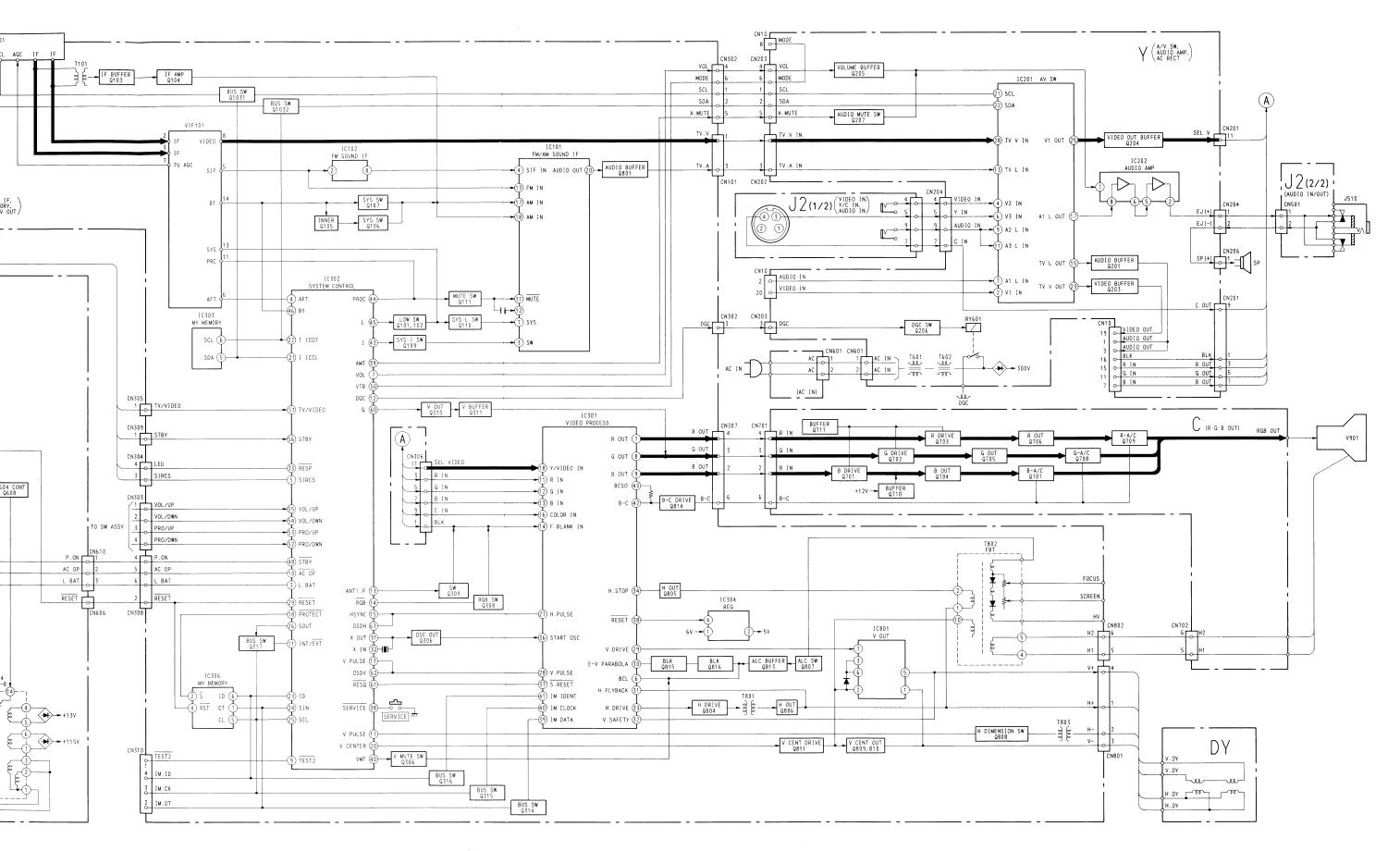
AWB: RGB cut-off and drive are automatically adjusted. [Mode 0] without IK pulse, countermeasures against claims; [Mode 1] only AWB function unavailable, adjustment mode; [Mode 2] Auto cut-off function only; [Mode 3] Auto white balance function (1) ADJ: Must be adjusted for each set.
 (2) X : Must be treated as reference (fixe.
 (3) AWB: RGB cut-off and drive are aut

Note 1: Two adjustment modes are available, L-byte(fine adjustment) and H-byte(rough adjustment).

SECTION 5 DIAGRAMS

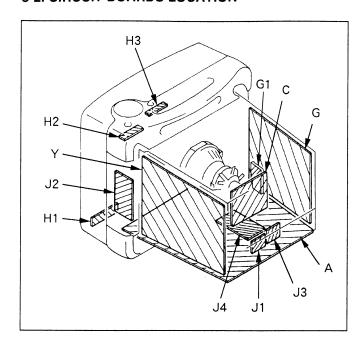
5-1. BLOCK DIAGRAM





- A board -

5-2. CIRCUIT BOARDS LOCATION



Reference information

METAL FILM RESISTOR : RN SOLID : RC : FPRD NONFLAMMABLE CARBON NONFLAMMABLE FUSIBLE : FUSE NONFLAMMABLE WIREWOUND : RW NONFLAMMABLE METAL OXIDE : RS NONFLAMMABLE CEMENT : RB MICRO INDUCTOR : LF-8L **TANTALUM** CAPACITOR : TA : PS STYROL POLYPROPYLENE : PP : PT MYLAR METALIZED POLYESTER : MPS : MPP METALIZED POLYPROPYLENE : ALB **BIPOLAR** HIGH TEMPERATURE : ALT

HIGH RIPPLE

: ALR

5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS — CONDUCTOR SIDE —

Note

- All capacitors are in μF unless otherwise noted.
 pF: μμF 50 WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5 mm Rating electrical power 1/10W

- All resistors are in ohms.
- : nonflammable resistor.
- fusible resistor.
- \(\triangle \) : internal component.
 \(\triangle \) : panel designation.
- All variable and adjustable resistors have characteristic curve B. unless otherwise noted.
- All voltages are in V.
- \bullet Readings are taken with a 10 MQ digital multimeter.
- Readings are taken with a PAL color-bar signal input.
- : adjustment for repair.
- Voltage variations may be noted due to normal production tolerance.
- : B+ bus.
- ===: B- bus.
- : signal path.

1 C DIODE IC101 D-7 D101 C-7 IC102 D-7 D102 C-8 IC301 B-4 D305 D-6 1C302 C-4 D306 E-6 IC303 B-1 D310 E-8 IC304 E-3 D311 E-8 IC305 E-4 D312 E-8 IC306 A-1 D313 E-7 IC801 G-3 D314 D-7 D315 D-8 TRANSISTOR D801 D-8 D802 F-1 Q101 C-7 D807 C-5 Q102 C-8 D810 F-2 Q103 D-6 D811 B-3 Q104 E-6 D812 D-3 Q105 E-8 D813 F-2 Q106 E-8 D814 B-2 Q107 E-8 Q108 E-7 TEST POINT Q109 D-7 0110 D-8 TP103 B-9 Q111 D-8 Q306 F-1 Q307 C-5 Q308 F-2 Q309 B-3 Q310 D-3 Q311 F-2 Q314 B-2 Q315 B-2 Q316 B-2 Q317 C-5 Q804 H-3 Q805 H-6 Q806 F-6 Q807 H-6 Q808 F-4 Q809 H-5 Q810 H-5 Q811 H-6 Q813 G-5 Q814 A-4 Q815 B-4 Q816 B-3 Q1031 C-7 Q1032



NOTE:

The circuit 600 Vp-p. inspection

KV-M1100D RM-818 KV-M1100D RM-818

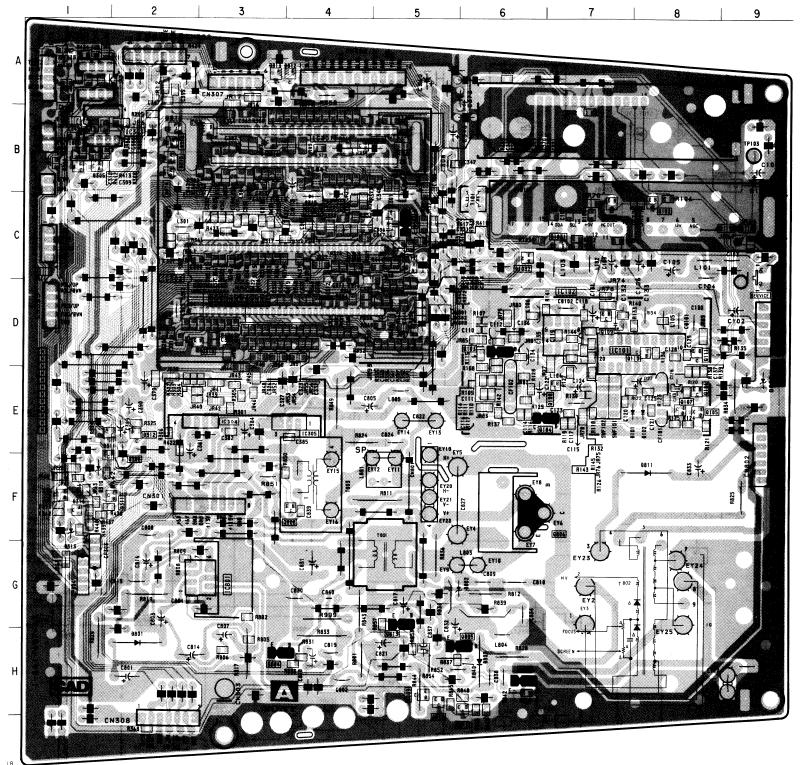
TUNER FM/AM SOUND IF VIDEO PROCESS MEMORY SYSTEM CONTROL H/V OUT

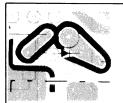
— A board —

Note:

- : Pattern from the side which enables seeing.
- Pattern of the rear side.

I C	DIODE
IC101 D-7	D101 C-7
IC102 D-7	D102 C-8
IC301 B-4	D305 D-6
1C302 C-4	D306 E-6
IC303 B-1	D310 E-8
IC304 E-3	D311 E-8
1C305 E-4	D312 E-8
IC306 A-1	D313 E-7
IC801 G-3	D314 D-7
TRANSISTOF	D315 D-8 D-8 D-8
	D802 F-1
Q101 C-7	D807 C-5
Q102 C-8	D810 F-2
Q103 D-6	D811 B-3
Q104 E-6	D812 D-3
Q105 E-8	D813 F-2
Q106 E-8	D814 B-2
Q107 E-8	
Q108 E-7	TEST POINT
Q109 D-7	TD100 D 0
Q110 D-8 Q111 D-8	TP103 B-9
Q111 D-8 Q306 F-1	
Q307 C-5	
Q308 F-2	
Q309 B-3	
Q310 D-3	
Q311 F-2	
Q314 B-2	
Q315 B-2	
Q316 B-2	
Q317 C-5	
Q804 H-3	
Q805 H-6	
Q806 F-6	
Q807 H-6	
Q808 F-4 Q809 H-5	
Q809 H-5 Q810 H-5	
Q811 H-6	
Q813 G-5	
Q814 A-4	
Q815 B-4	
Q816 B-3	
Q1031 C-7	
01000	





NOTE:

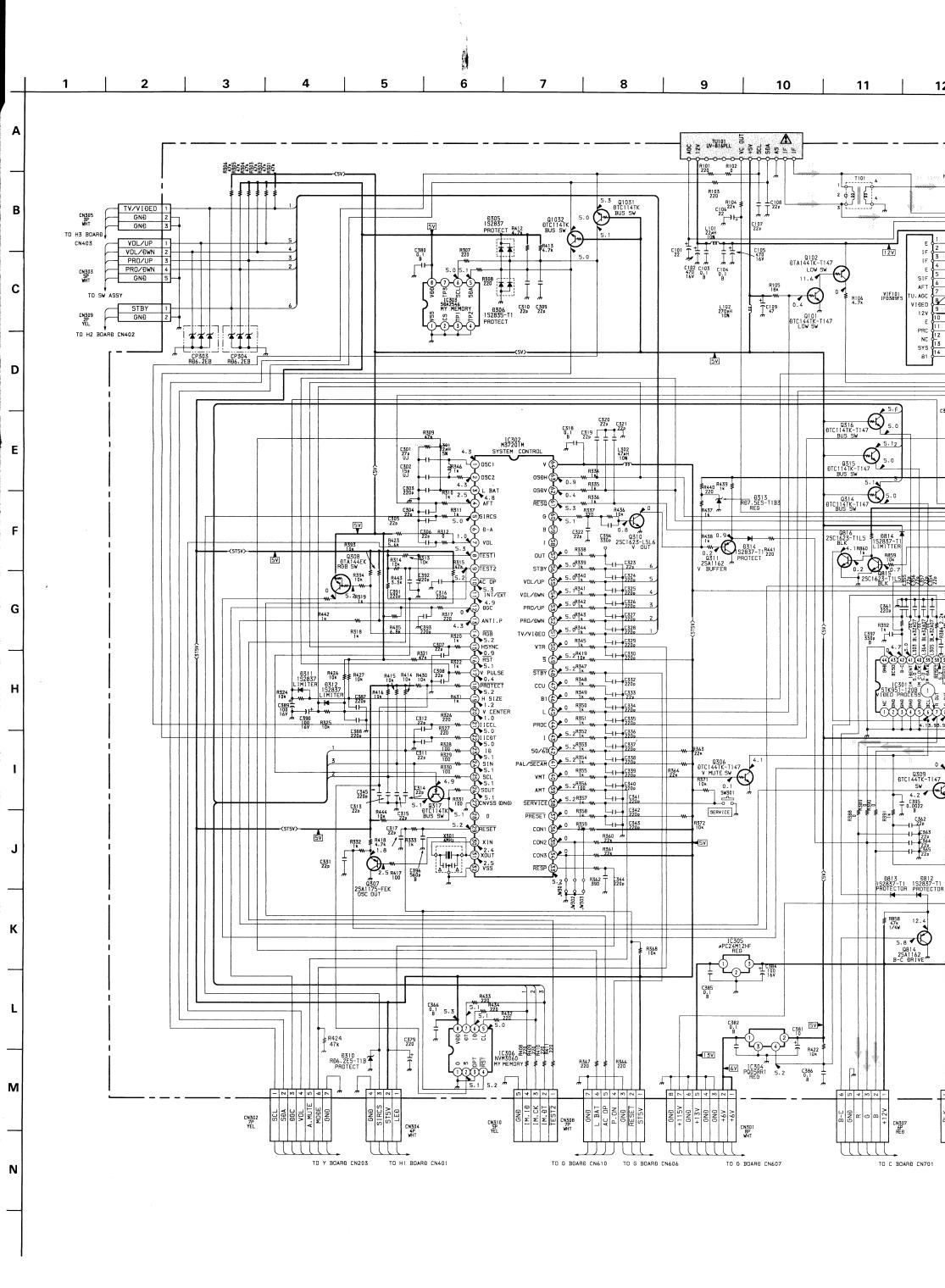
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

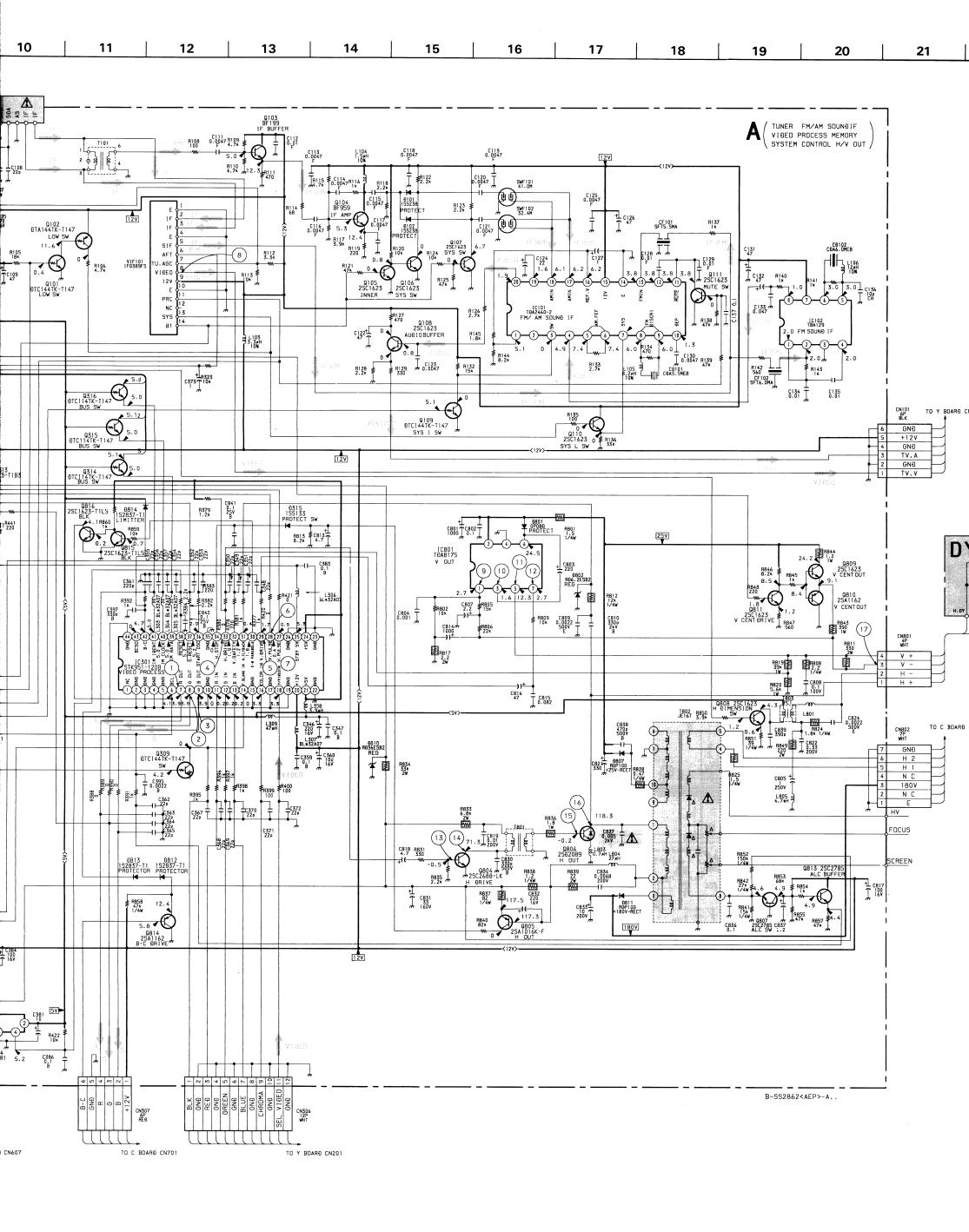
Q1032

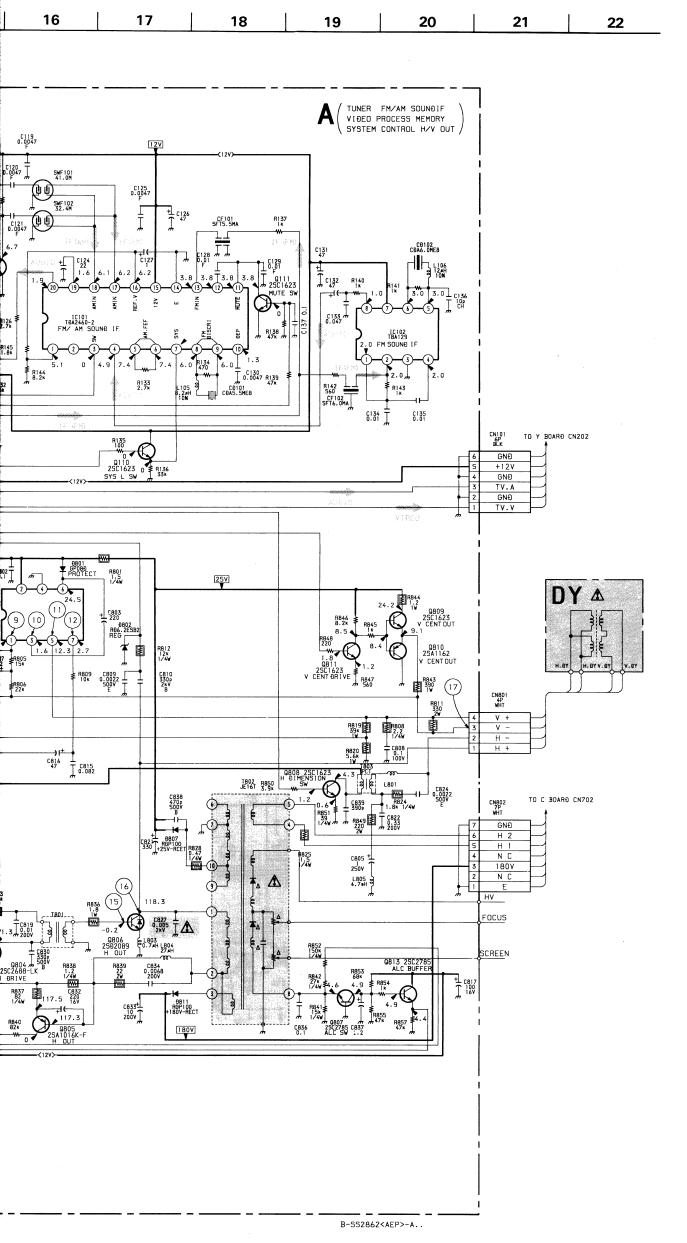
C-6

USIBLE VIREWOUND METAL OXIDE EMENT

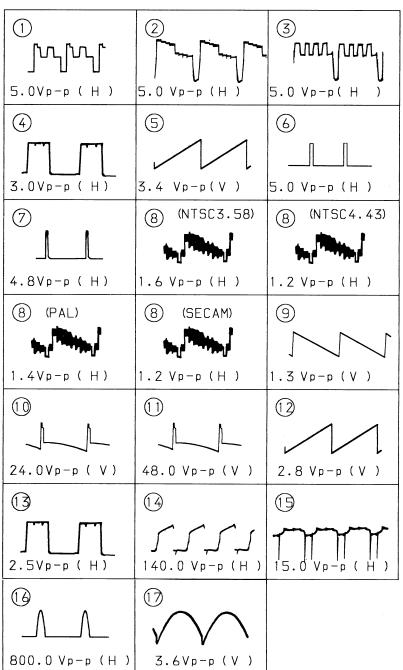
ROPYLENE



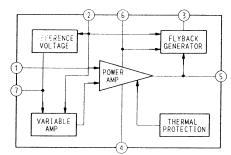




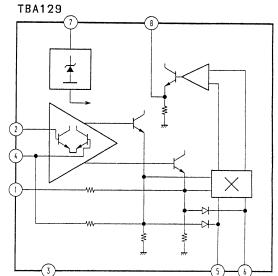
WAVEFORMS A BOARD



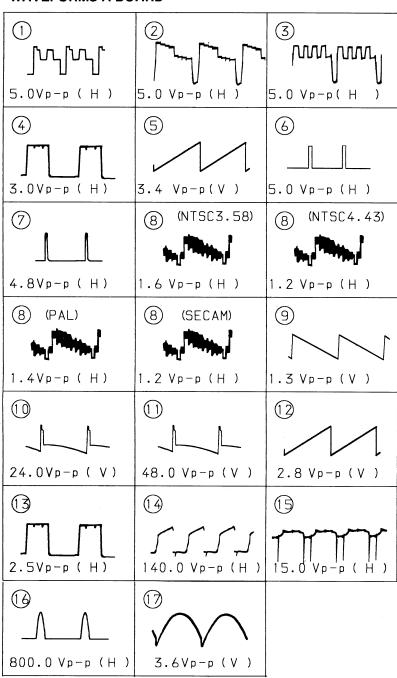
A BOARD IC801 TDA8175



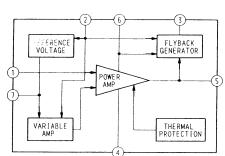
A BOARD IC102 TBA129



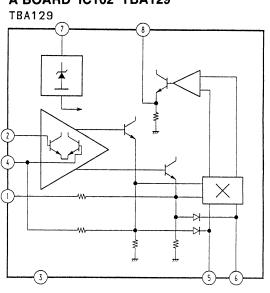
WAVEFORMS A BOARD



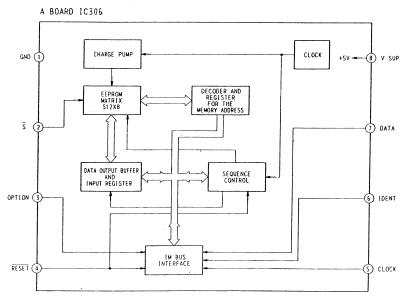
A BOARD IC801 TDA8175



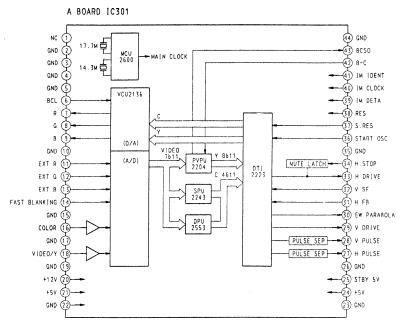
A BOARD IC102 TBA129



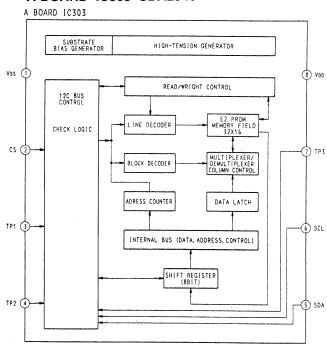
A BOARD IC306 NVM3060



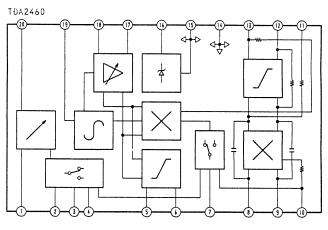
A BOARD IC301 STK951-120B



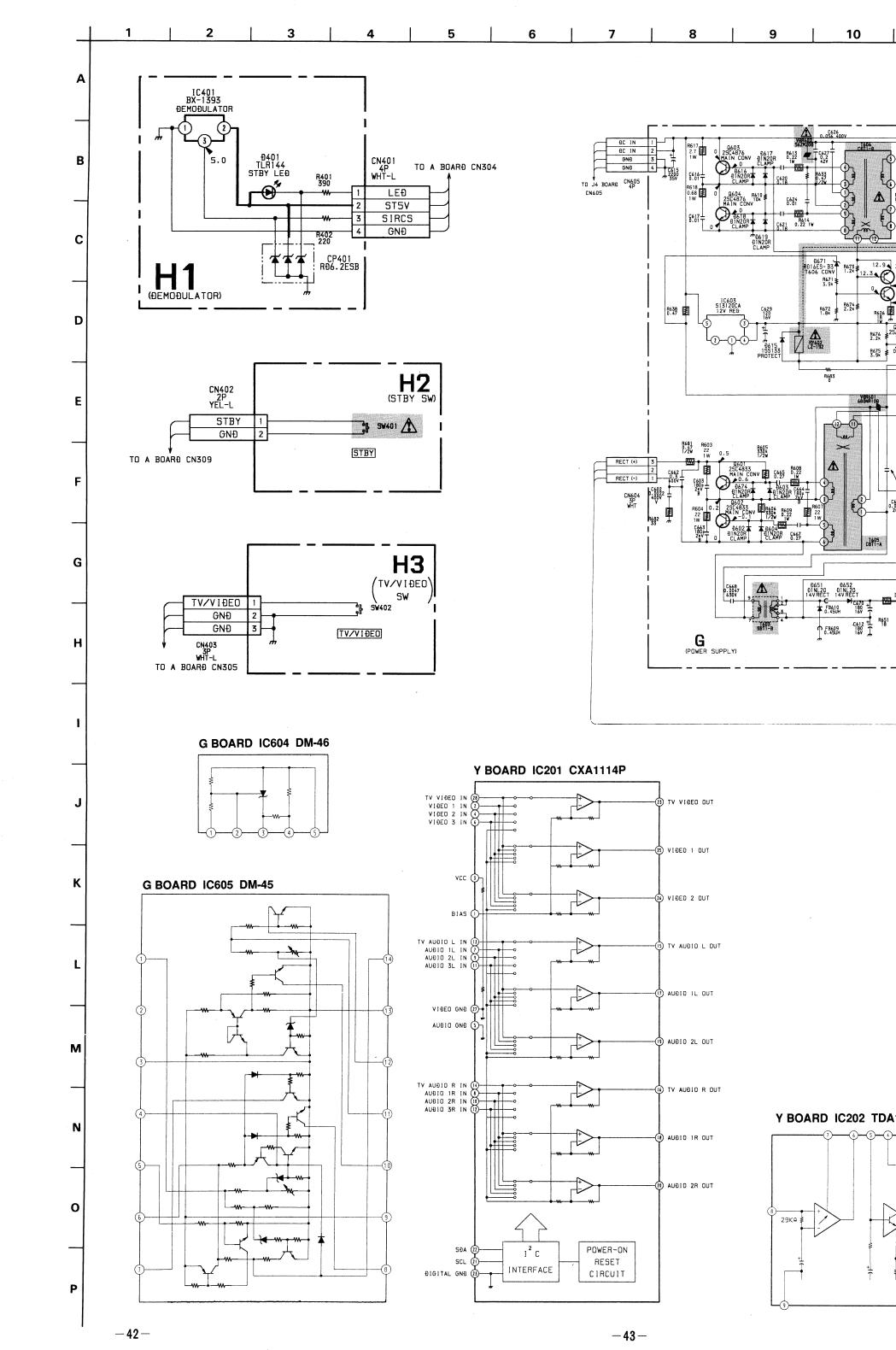
A BOARD IC303 SDA2546

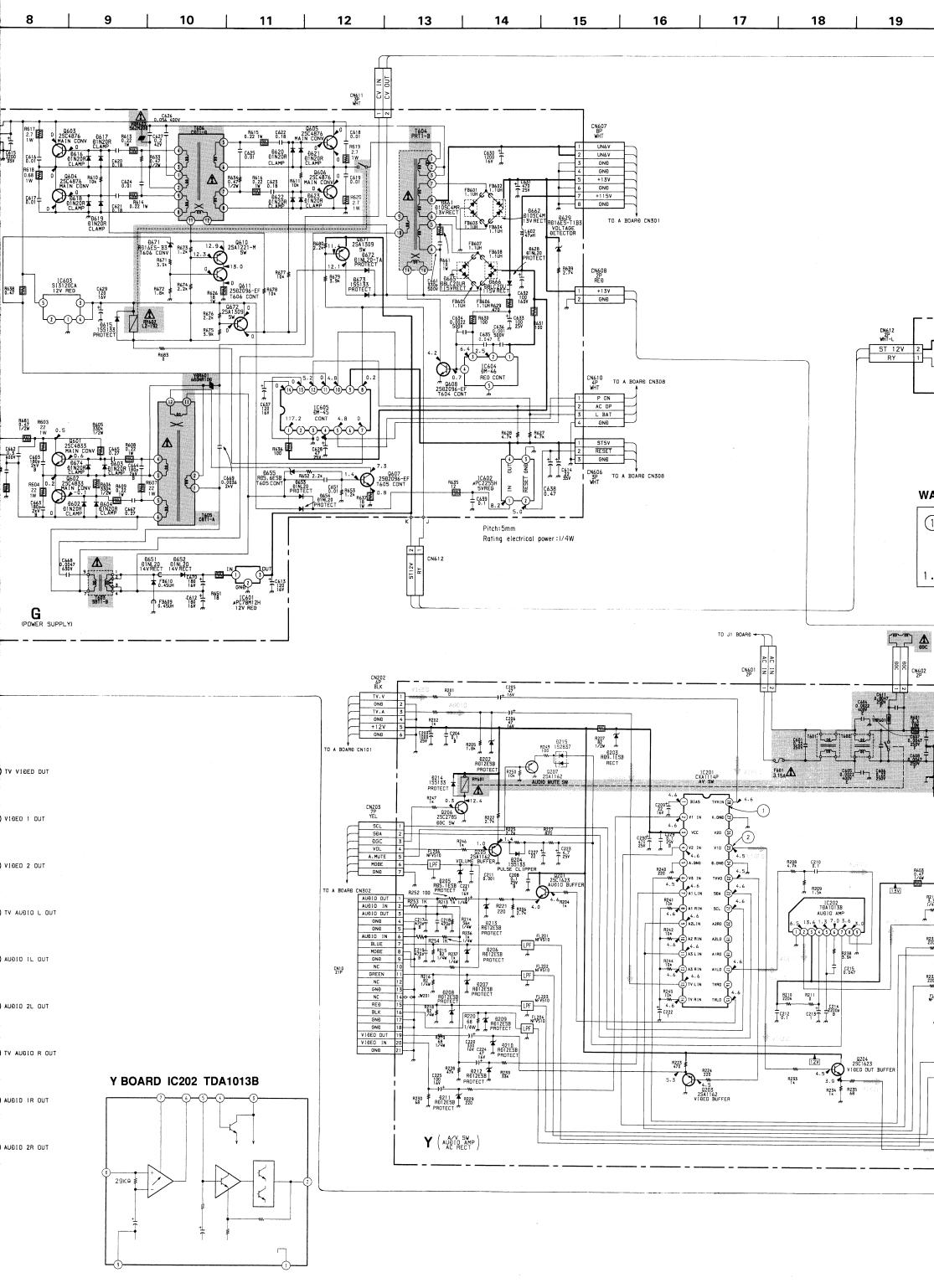


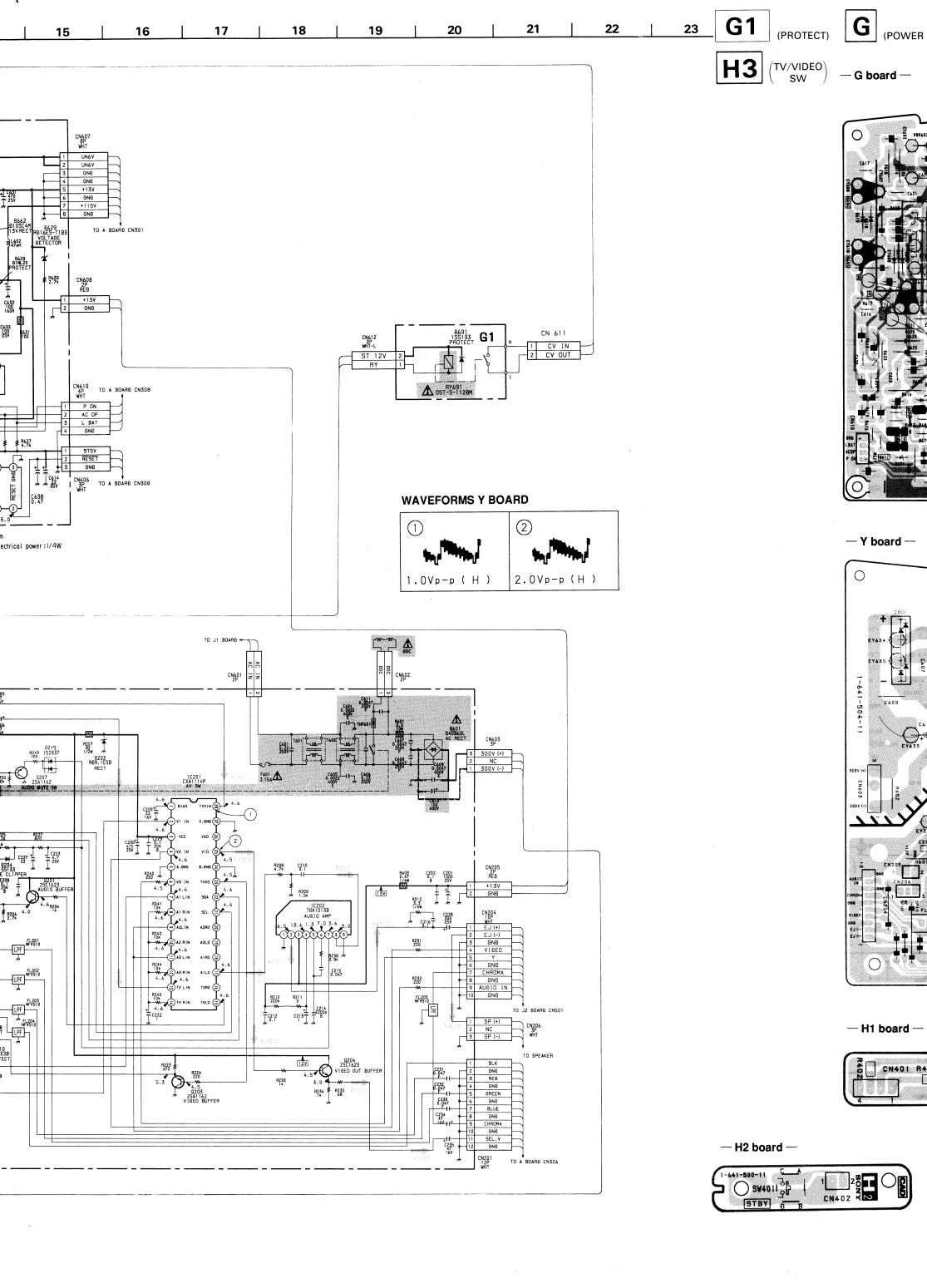
A BOARD IC101 TDA2460-2

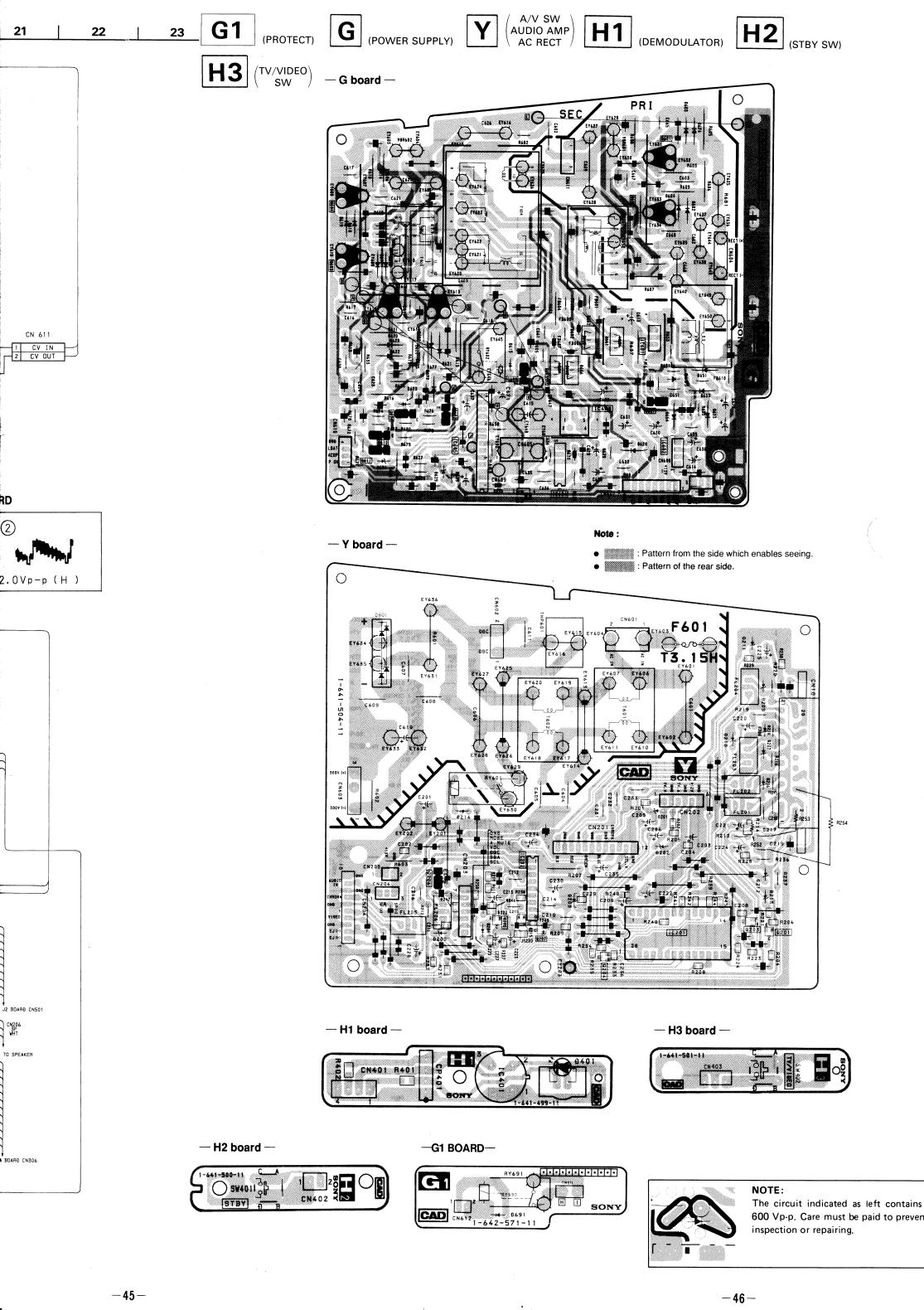


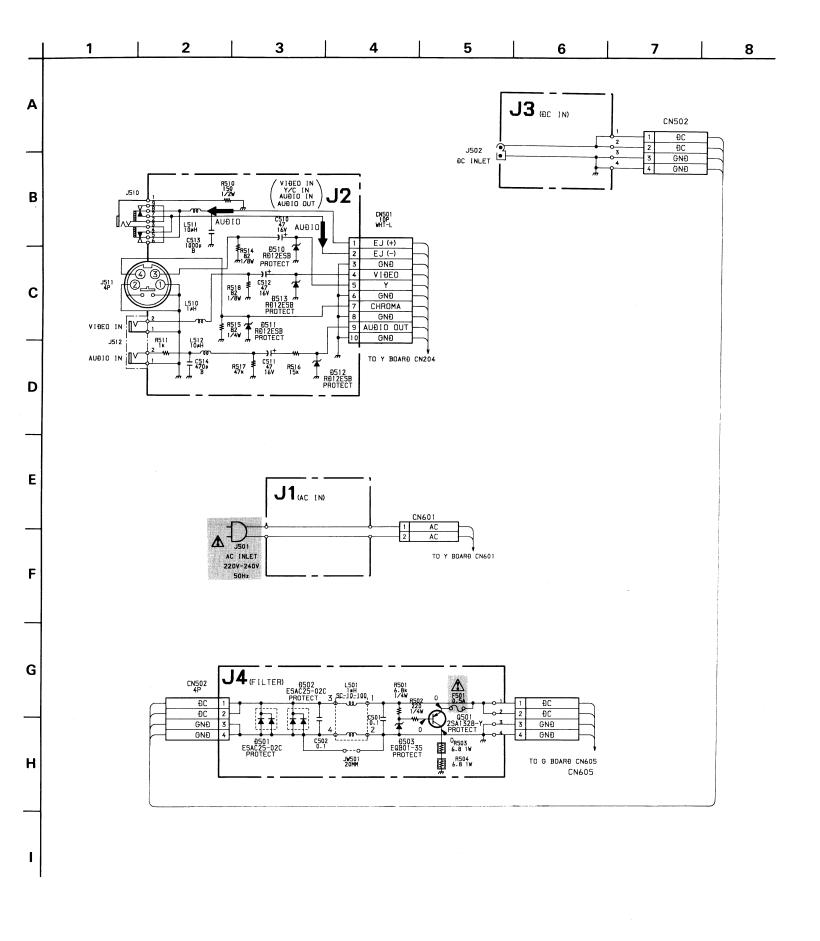
Δ

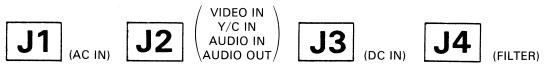




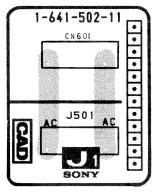




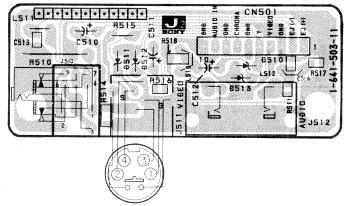




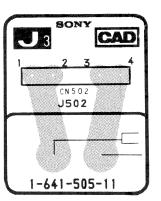
— J1 board —



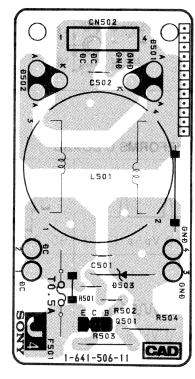
— J2 board —



- J3 board -

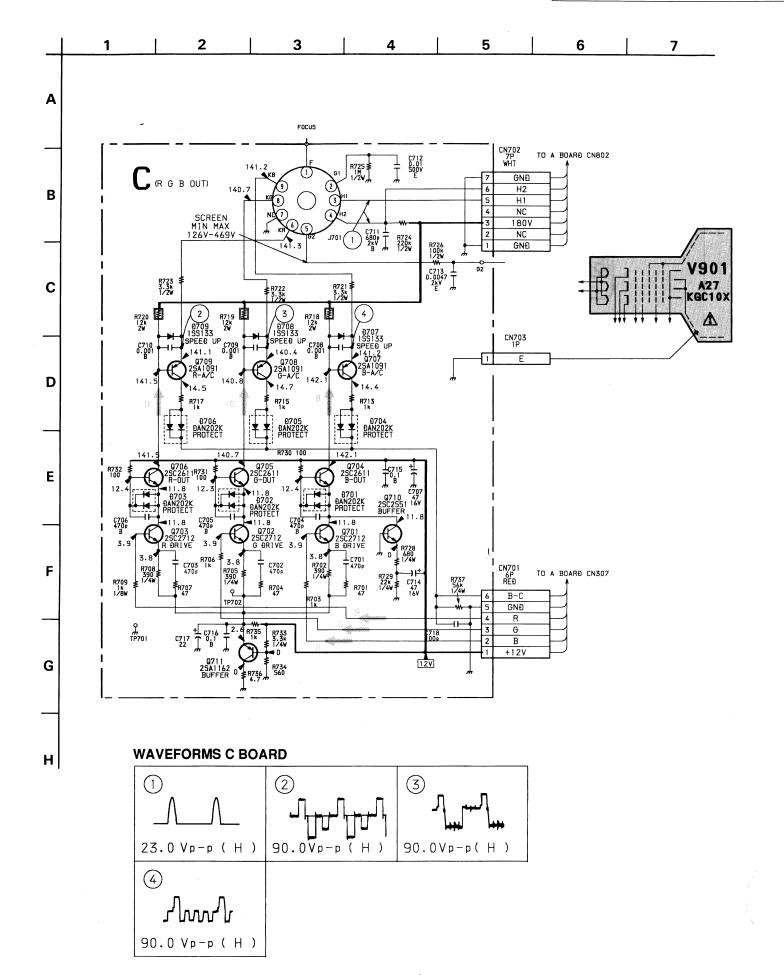


— J4 board —

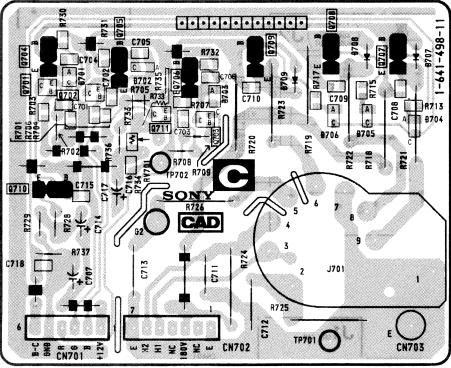






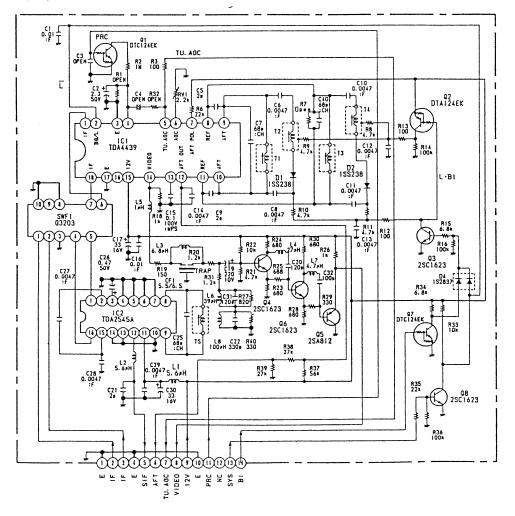




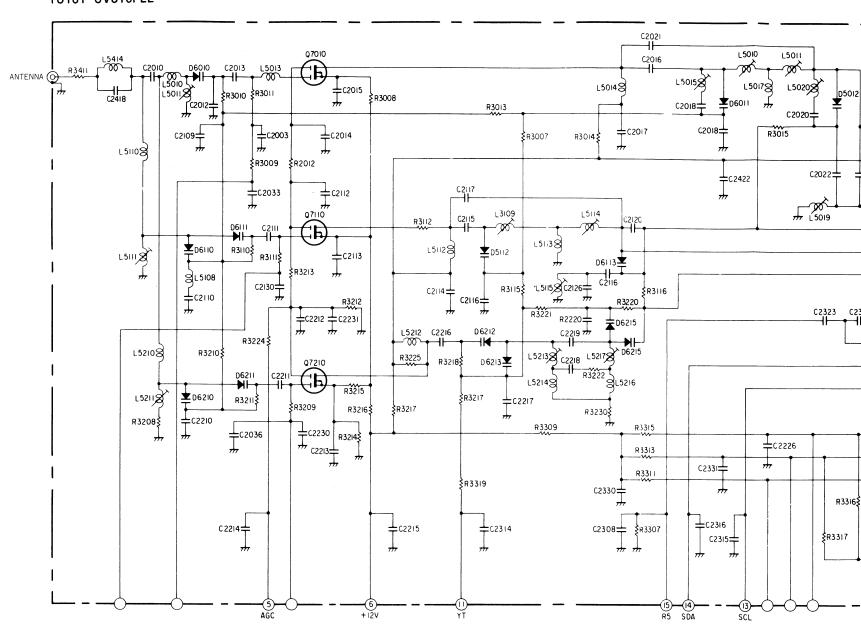


─A board─

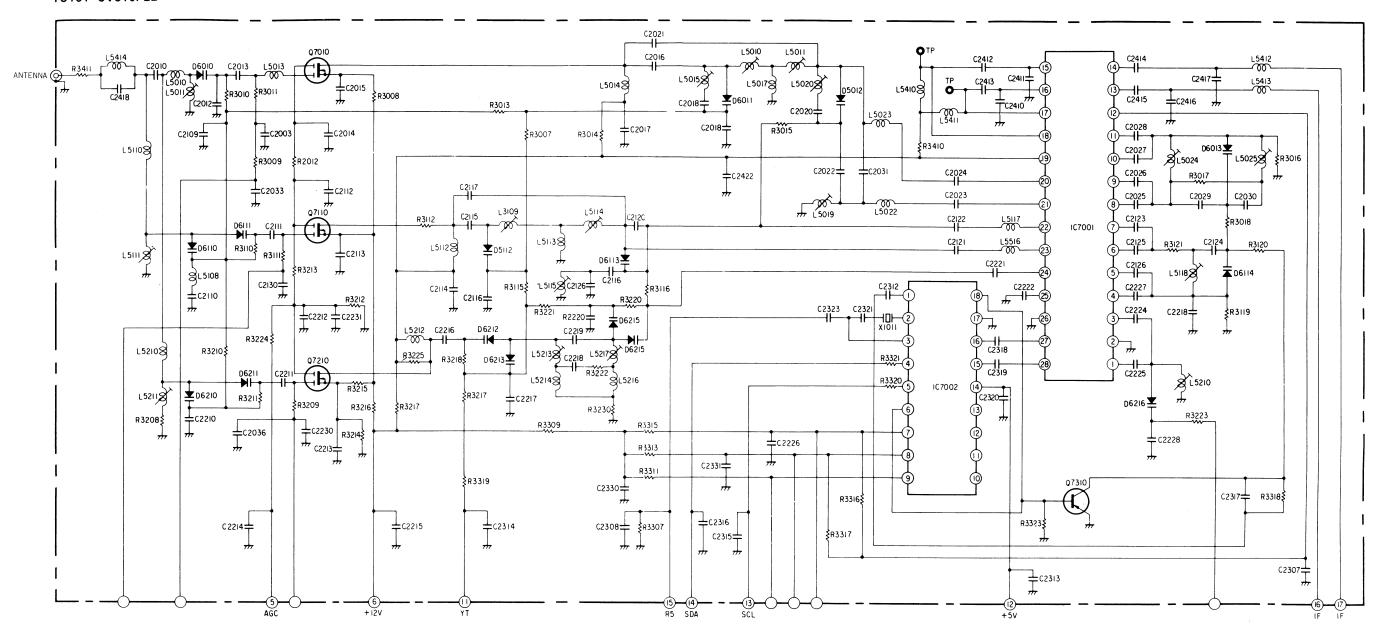
VIF101 IFG-389FS



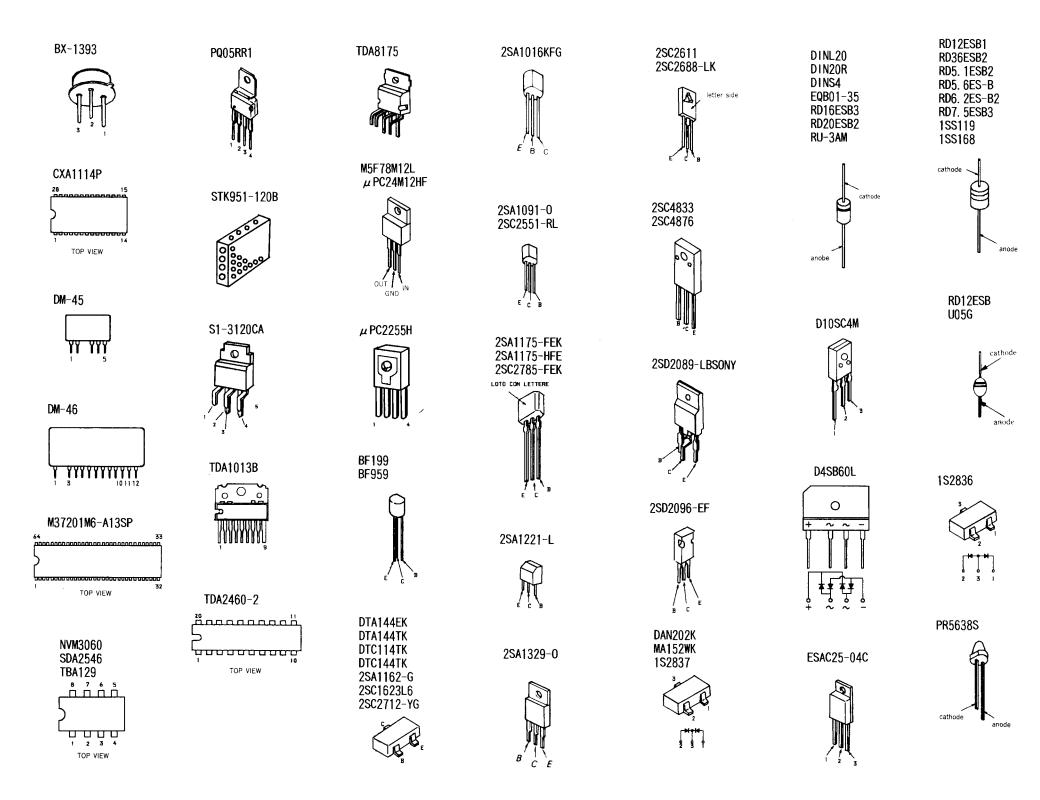
─A board─ TU101 UV816PLL



−A board− TU101 UV816PLL



5-4. SEMICONDUCTORS



SECTION 6 EXPLODED VIEWS

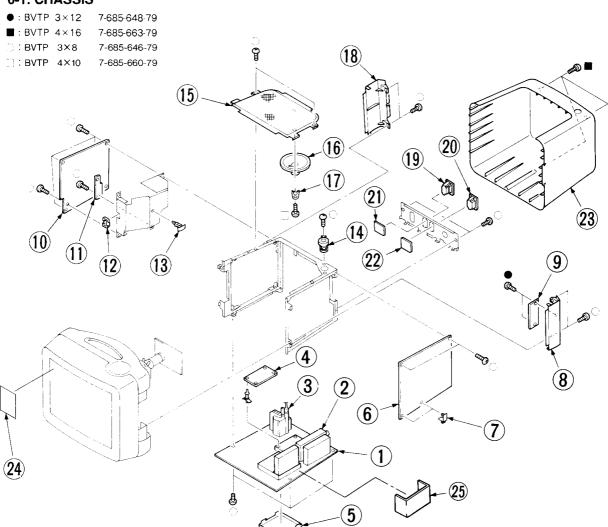
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*\pi" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

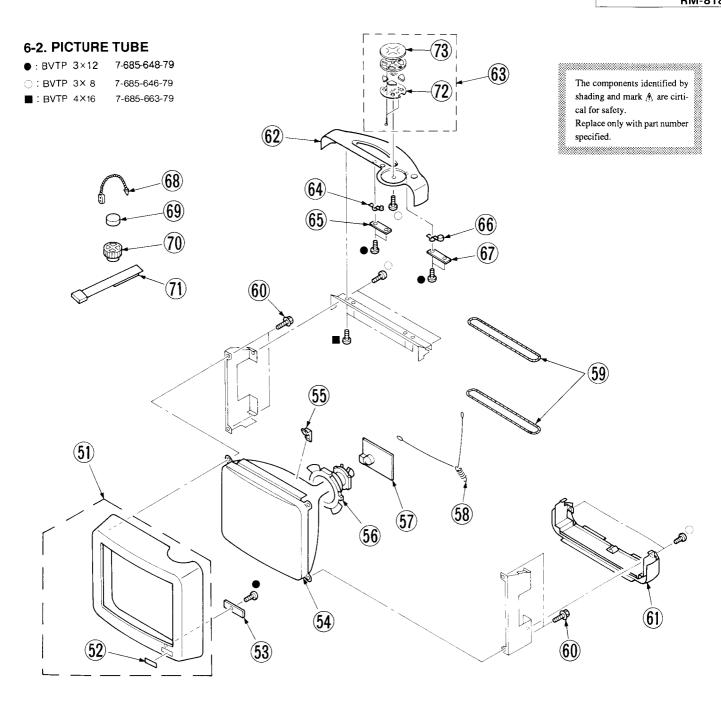
The components identified by shading and mark A are cirtical for safety.

Replace only with part number specified.

6-1. CHASSIS



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO. PAR	RT NO.	DESCRIPTION	REMARK
2	A BOARD, COMPLETE TUNER, ET (UY-816(PLL)) TRANSFORMER ASSY, FLYBACK J4 BOARD CASE (BOTTOM LID), SHIELD Y BOARD, COMPLETE HINGE, CIRCUIT BOARD PLATE (RIGHT), SIDE J2 BOARD G BOARD, COMPLETE G1 BOARD HOLDER, WIRE	11	14 4-0 15 X-4 16 1-5 17 *4-3 18 4-0 19 1-5 20 40 15 21 *1-6 22 *1-6 23 X-4 24 3-7	035-428-01 4030-349-1 544-187-11 038-106-00 054-105-00 054-10 054-11 0641-502-11	SUPPORT, PC BRACKET, ANTENNA PLATE ASSY, SP SPEAKER HOLDER, SPEAKER PLATE (LEFT), SIDE CONNECTOR (DC POWER) INLET, AC J3 BOARD J1 BOARD COVER ASSY, REAR STICKER, SONY SYMBOL (25) SHEET, COPPER	



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO	. PART NO.	DESCRIPTION	REMARK
55 3-704-495-01 56 A1-451-354-11 57 *A-1331-179-A 58 4-303-774-99	CABINET ASSY (WITH BEZEL ASSY) WINDOW, ORNAMENTAL H1 BOARD PICTURE TUBE (A27KGC10X) SPACER, DY DEFLECTION YOKE (Y11SLA) C BOARD, COMPLETE SPRING COIL DEMAGNETIZATION SCREW (5), TAPPING PLATE ASSY, BOTTOM		62 63 64 65 66 67 68 69 70 71 72 73	X-4030-225-1 1-466-678-11 4-035-432-01 *1-641-501-11 4-035-429-01 *1-641-500-11 4-308-870-00 1-452-512-11 1-452-094-00 X-4308-815-0 *9-902-396-01 9-902-397-01	PLATE ASSY, TOP SWITCH BLOCK BUTTON (A), MULTI H3 BOARD BUTTON (B), MULTI H2 BOARD CLIP, LEAD WIRE MAGNET MAGNET, ROTATABLE DISK; 15MM & PERMALLOY ASSY, CONVERGENCE PW BOARD SHEET, RUBBER	72,73



SECTION 7 ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark \triangle are cirtical for safety.

Replace only with part number specified.

- Items marked "*\pm" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

When indicating parts by reference number, please include the board name.

 $\begin{array}{cccc} {\sf CAPACITORS} & {\sf COILS} \\ \cdot \ {\sf MF} \colon \mu \ {\sf F} \ , \ {\sf PF} \colon \mu \ \mu \ \ {\sf F} & \cdot \ {\sf MMH} \colon m {\sf H} \ , \ {\sf UH} \colon \mu & {\sf H} \end{array}$

RESISTORS

- · All resistors are in ohms
- \cdot F: nonflammable

REF.NO. PART NO.		DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION	.		REMARK
*A-1296-93		A BOARD, COMF				C309	1-163-101-00				50 V
*4-341-752 *4-341-752	1-01 2-01	EYELET EYELET				C310 C311 C312 C313 C314	1-163-101-00 1-163-101-00 1-163-101-00 1-163-101-00 1-163-101-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	22PF	5% 5% 5% 5%	50V 50V 50V 50V 50V
C101 1-126-233 C102 1-126-103 C103 1-136-165 C104 1-136-165 C105 1-126-103	3-11 3-11 5-00 5-00	CITOR> ELECT ELECT FILM FILM ELECT	22MF 470MF 0.1MF 0.1MF 470MF	20% 20% 5% 5% 20%	50V 16V 50V 50V 16V	C315 C316 C317 C318 C319	1-163-101-00 1-163-125-00 1-163-101-00 1-164-004-11 1-163-101-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF 22PF 0.1MF	5% 5% 5% 10% 5%	50V 50V 50V 25V 50V
C106 1-126-23 C107 1-163-101 C108 1-163-101 C109 1-124-91 C111 1-163-029	1-00 1-00 0-11	ELECT CERAMIC CHIP CERAMIC CHIP ELECT CERAMIC CHIP	22MF 22PF 22PF 47MF		50V 50V 50V 50V 50V	C320 C321 C322 C323 C324	1-163-101-00 1-163-101-00 1-163-101-00 1-163-101-00 1-163-125-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	22PF 22PF 22PF	5% 5% 5% 5%	50 V 50 V 50 V 50 V 50 V
C112 1-163-03 C113 1-163-02 C114 1-163-02 C115 1-163-02 C116 1-163-02	9-11 9-11 9-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.01MF 0.0047MF 0.0047MF 0.0047MF 0.0047MF		50V 50V 50V 50V 50V	C325 C326 C327 C328 C329	1-163-125-00 1-163-125-00 1-163-125-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF 220PF 220PF	5% 5% 5% 5%	50V 50V 50V 50V 50V
C117 1-163-029 C118 1-163-029 C119 1-163-029 C120 1-163-029 C121 1-163-029	9-11 9-11 9-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.0047MF 0.0047MF 0.0047MF 0.0047MF 0.0047MF		50V 50V 50V 50V 50V	C330 C331 C332 C333 C334	1-163-125-00 1-163-101-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	22PF 220PF 22PF	5% 5% 5% 5% 5%	50V 50V 50V 50V 50V
C122 1-124-91(C123 1-130-479 C124 1-126-233 C125 1-163-029 C126 1-124-91(9-00 3-11 9-11	MYLAR ELECT CERAMIC CHIP	47MF 0.0047MF 22MF	20% 5% 20% 20%	50V 50V 50V 50V 50V	C335 C336 C337 C338 C339	1-163-125-00 1-163-125-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF 220PF 220PF	5% 5% 5% 5% 5%	50V 50V 50V 50V 50V
C127 1-124-903 C128 1-163-033 C129 1-163-031 C130 1-130-479 C131 1-124-910	1-11 1-11 9-00	CERAMIC CHIP CERAMIC CHIP MYLAR	1MF 0.01MF 0.01MF 0.0047MF 47MF		50V 50V 50V 50V 50V	C340 C341 C342 C343 C344	1-163-125-00 1-163-125-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	220PF 220PF 220PF	5% 5% 5% 5% 5%	50V 50V 50V 50V 50V
C132 1-124-910 C133 1-136-161 C134 1-136-155 C135 1-136-155 C136 1-163-227	1-00 3-00 3-00	FILM FILM	47MF 0.047MF 0.01MF 0.01MF 10PF	20% 5% 5% 5% 5%	50V 50V 50V 50V 50V	C348 C349	1-124-120-11	CERAMIC CHIP CERAMIC CHIP	220MF 0.1MF 22PF	5% 20% 10% 5% 5%	50V 16V 25V 50V 50V
C137 1-164-004 C301 1-163-103 C302 1-163-097 C303 1-163-125 C304 1-163-101	4-11 3-00 7-00 5-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF 27PF 15PF 220PF	10% 5% 5% 5%	25V 50V 50V 50V 50V	C350 C351 C352 C353 C354	1-163-101-00 1-163-101-00 1-163-101-00 1-163-101-00 1-163-101-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	22PF 22PF 22PF 22PF	5% 5% 5% 5%	50V 50V 50V 50V 50V
C305 1-163-101 C306 1-163-101 C307 1-163-101 C308 1-163-101	1-00 1-00 1-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	22PF 22PF 22PF	5% 5% 5%	50V 50V 50V 50V	C355 C356 C357 C359 C360	1-163-101-00 1-163-101-00 1-163-101-00 1-164-004-11 1-126-101-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP ELECT	22PF 22PF	5% 5% 5% 10% 20%	50V 50V 50V 25V 16V



DEE NO	DART NO	NESCRIPTION			DEMADU	TOUC NO	DADT NO	DEC CD LDT LON	DEMARK
	PART NO.				REMARK	KEF.NU.	PART NO.	DESCRIPTION	REMARK
C361 C362 C363 C364 C365	1-163-125-00 1-163-101-00 1-163-101-00 1-163-101-00 1-163-101-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP			50V 50V 50V 50V 50V	CD101 CD102	<fil 1-404-684-11="" 1-404-751-11="" 1-527-840-00<="" td=""><td>TER> DISCRIMINATOR, CERAMIC DISCRIMINATOR, CERAMIC FILTER, CERAMIC FILTER, CERAMIC</td><td></td></fil>	TER> DISCRIMINATOR, CERAMIC DISCRIMINATOR, CERAMIC FILTER, CERAMIC FILTER, CERAMIC	
C366 C367 C368 C369 C370	1-163-101-00 1-163-101-00 1-163-101-00 1-163-101-00	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	22PF 22PF 22PF 22PF		25V 50V 50V 50V 50V	SWFIUI	1-567-569-11 1-404-711-11 1-404-712-11	SAWF	
C371 C372 C373 C379 C380	1-163-101-00 1-163-101-00 1-124-903-11 1-124-911-11 1-164-004-11	CERAMIC CHIP CERAMIC CHIP ELECT ELECT CERAMIC CHIP			50V 50V 50V 50V 25V	CN301 CN302	*1-564-509-11 *1-564-511-11 *1-564-510-11	NECTOR> PLUG, CONNECTOR 6P PLUG, CONNECTOR 8P PLUG, CONNECTOR 7P PLUG, CONNECTOR 5P	
C381 C382 C383 C384 C385	1-164-004-11 1-164-004-11 1-126-101-11 1-164-004-11	CERAMIC CHIP	0.1MF 0.1MF 100MF 0.1MF		50V 25V 25V 16V 25V	CN304 CN305 CN306 CN307	*1-564-507-11 *1-564-506-11 *1-564-515-11 *1-564-509-11	PLUG, CONNECTOR 4P PLUG, CONNECTOR 3P PLUG, CONNECTOR 12P PLUG, CONNECTOR 6P PLUG, CONNECTOR 7P	
C386 C387 C388 C389 C390	1-126-101-11	ELECT	100MF 100MF		25V 50V 50V 16V 16V	CN309 CN310 CN801	*1-564-505-11 *1-564-508-11 *1-508-766-00	PLUG, CONNECTOR 2P PLUG, CONNECTOR 5P PIN, CONNECTOR (5MM PITCH) 4P PLUG, CONNECTOR 7P	
C391 C392 C393 C394 C395	1-163-129-00 1-164-161-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	330PF 0.0022MF	5% 5% 5% 5% 10%	50V 50V 50V 50V 50V	CP303 CP304	1-232-680-11	POSITION CIRCUIT BLOCK> COMPOSITION CIRCUIT BLOCK COMPOSITION CIRCUIT BLOCK	
C396 C397 C801 C802 C803	1-163-006-11 1-163-003-11 1-124-922-11 1-136-165-00 1-124-911-11	CERAMIC CHIP CERAMIC CHIP ELECT FILM ELECT	U.1MF	10% 10% 20% 5% 20%	50V 50V 50V 50V 50V	D101 D102 D305	<pre><di0 8-719-400-18<="" 8-719-903-27="" pre=""></di0></pre>	DIODE 1SS168	
C804 C805 C807 C808 C809	1-163-141-00 1-124-634-11 1-124-925-11 1-106-220-00 1-101-821-00	MYLAR	0.001MF 1MF 2.2MF 0.1MF 0.0022MF	5% 20% 20% 10%	50V 250V 50V 100V 500V	D306 D310 D311 D312	8-719-104-34 8-719-109-93 8-719-400-18 8-719-400-18	DIODE 1S2836 DIODE RD6.2ES-B2 DIODE MA152WK	
C810 C813 C814 C815 C816	1-162-115-00 1-124-927-11 1-124-922-11 1-136-164-00 1-124-910-11	FILM	330PF 4.7MF 1000MF 0.082MF 47MF	10% 20% 20% 5% 20%	2KV 50V 50V 50V 50V	D314 D315 D801 D802	8-719-400-18 8-719-911-19 8-719-911-55 8-719-109-93	DIODE MA152WK DIODE 1SS119 DIODE U05G DIODE RD6.2ES-B2	
C817 C818 C819 C821 C822	1-126-101-11 1-124-927-11 1-106-367-00 1-124-912-11 1-136-105-00	ELECT Mylar Elect	100MF 4.7MF 0.01MF 330MF 0.33MF	20% 20% 10% 20% 5%	16V 50V 200V 50V 200V	D807 D810 D811 D812 D813		DIODE RU-3AM DIODE RD36ES-B2 DIODE RU-3AM DIODE MA152WK DIODE MA152WK	
C824 C827 A C830 C831 C832	1-101-821-00 1-136-070-11 1-102-030-00 1-123-024-21 1-124-120-11	FILM CERAMIC ELECT	0.0022MF 0.005MF 330PF 33MF 220MF	3% 10% 20%	500V 2KV 500V 160V 16V	D814	8-719-400-18 <ic> 8-759-014-34</ic>	DIODE MA152WK IC TDA2460-2	
C833 C834 C836 C837 C838	1-123-939-00 1-106-363-00 1-136-165-00 1-124-907-11 1-102-228-00	MYLAR Film Elect	10MF 0.0068MF 0.1MF 10MF 470PF	20% 5% 20% 10%	200V 200V 50V 50V 500V	IC102 IC301 IC302 IC303	8-759-003-90 8-749-922-99 8-759-047-35 8-759-748-56	IC TBA129 IC STK951-120B IC M37201M6-A13SP IC SDA2546	
C839 C841 C842	1-163-131-00 1-164-004-11 1-164-004-11	CERAMIC CHIP CERAMIC CHIP CERAMIC CHIP	0.1MF	5% 10% 10%	50V 25V 25V	10305 10306	4-382-854-11	SCREW (M3X10), P, SW (+); IC304 IC UPC24M12HF SCREW (M3X10), P, SW (+); IC305 IC NVM3060	



REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION			REMARK
	8-759-047-73 4-382-854-11	SCREW (M3X10), P, SW (+); IC801		B	<res< td=""><td>ISTOR></td><td></td><td></td><td></td></res<>	ISTOR>			
	<c01< td=""><td>L></td><td></td><td>JR1 JR2 JR3</td><td>1-216-296-00 1-216-295-00 1-216-295-00</td><td>METAL GLAZE METAL GLAZE METAL GLAZE</td><td>0 0 0</td><td>5% 5% 5% 5%</td><td>1/8W 1/10W 1/10W</td></c01<>	L>		JR1 JR2 JR3	1-216-296-00 1-216-295-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5% 5% 5%	1/8W 1/10W 1/10W
L101 L102 L103	1-408-413-00 1-408-426-00 1-408-403-00	L>		JR4 JR5	1-216-295-00 1-216-296-00 1-216-295-00	METAL GLAZE	0	-	1/8W 1/10W
L104 L105 L106	1-408-399-00 1-408-408-00	INDUCTOR 1.5UH INDUCTOR 8.2UH		JR6 JR7 JR11 JR12	1-216-296-00 1-216-295-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5% 5%	1/8W 1/10W 1/8W 1/8W
L302 L303	1-408-417-00 1-408-417-00 1-543-813-21	INDUCTOR 220H INDUCTOR 47UH FILTER, EMI		JR17	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0 0	5% 5% 5%	1/8W 1/8W
L304 L305 L306	1-543-813-21 1-543-813-21 1-543-813-21	FILTER, EMI FILTER, EMI		JR18 JR19 JR20	1-216-296-00 1-216-296-00 1-216-295-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/8W 1/8W 1/10W 1/8W
L307 L308 L309	1-543-813-21 1-412-520-21 1-412-533-21	FILTER, EMI INDUCTOR 3.9UH INDUCTOR 47UH		JR24 JR25	1-216-296-00 1-216-295-00	METAL GLAZE METAL GLAZE	0	5% 5%	1/8W 1/10W
L801 L803 L804	1-460-026-11 1-407-365-00 1-412-530-11	COIL, HORIZONTAL LINEARITY COIL, CHOKE		JR26 JR27 JR28	1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5% 5%	1/8W 1/8W 1/8W
L805	1-407-500-00	INDUCTOR 4.7MMH		JR31 JR32 JR37	1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5%	1/8W 1/8W 1/8W
Q101	<tra 8-729-903-30</tra 	NSISTOR> TRANSISTOR DTC144TK		JR38 JR39	1-216-296-00 1-216-295-00			5% 5%	1/8W 1/10W
0102 0103 0104 0105	8-729-903-29 8-729-901-59 8-729-000-12 8-729-120-28	TRANSISTOR DTA144TK TRANSISTOR BF199 TRANSISTOR BF959 TRANSISTOR 2SC1623-L5L6		JR40 JR41 JR42 JR43	1-216-295-00 1-216-296-00 1-216-296-00 1-216-295-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5%	1/10W 1/8W 1/8W 1/10W 1/8W
Q106 Q107 Q108 Q109 Q110	8-729-120-28 8-729-120-28 8-729-120-28 8-729-903-30 8-729-120-28	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR DTC144TK TRANSISTOR 2SC1623-L5L6		JR45 JR46 JR47 JR47	1-216-296-00 1-216-295-00 1-216-295-00 1-216-295-00		0 0 0 0 0		1/8W 1/10W 1/10W 1/10W
Q111 Q306 Q307 Q308 Q309	8-729-120-28 8-729-903-30 8-729-119-77 8-729-901-06 8-729-903-30	FILTER, EMI FILTER, EMI FILTER, EMI FILTER, EMI FILTER, EMI INDUCTOR 3.9UH INDUCTOR 47UH COIL, HORIZONTAL LINEARITY COIL, CHOKE INDUCTOR 27UH INDUCTOR 4.7MMH NSISTOR> TRANSISTOR DTC144TK TRANSISTOR DTA144TK TRANSISTOR BF199 TRANSISTOR BF959 TRANSISTOR ZSC1623-L5L6 TRANSISTOR DTC144TK		JR50 JR51 JR52 JR53		METAL GLAZE			1/8W 1/8W 1/8W 1/10W 1/10W
Q310 Q311 Q314 Q315 Q316	8-729-120-28 8-729-230-46 8-729-902-99 8-729-902-99 8-729-902-99	TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-YG TRANSISTOR DTC114TK TRANSISTOR DTC114TK TRANSISTOR DTC114TK		JR56 JR57 JR59	1-216-295-00 1-216-295-00 1-216-295-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5%	1/10W 1/10W 1/10W 1/10W 1/8W
Q317 Q804 Q805 Q806	8-729-902-99 8-729-119-80 8-729-820-50 8-729-231-95 4-382-854-11	TRANSISTOR DTC114TK TRANSISTOR 25C2688-LK TRANSISTOR 2SA1016KFG TRANSISTOR 2SD2089-LBSONY SCREW (M3X10), P, SW (+); Q806		JR60 JR61 JR62 JR63 JR66	1-216-296-00 1-216-295-00 1-216-295-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0 0	5% 5% 5% 5%	1/8W 1/10W 1/8W 1/10W 1/8W
9807 9808 9809 9810 9811	8-729-119-79 8-729-120-28 8-729-120-28 8-729-230-46 8-729-120-28	TRANSISTOR 2SC2785-FEK TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SA1162-YG TRANSISTOR 2SC1623-L5L6		JR67 JR70 JR71 JR72 JR73 JR74	1-216-296-00 1-216-296-00 1-216-295-00 1-216-295-00 1-216-295-00 1-216-296-00	METAL GLAZE	0 0 0 0 0	5% 5% 5% 5% 5% 5%	1/8W 1/10W 1/10W 1/10W 1/8W
Q813 Q814 Q815 Q816 Q1031	8~729-119-79 8~729-230-46 8~729-120-28 8~729-120-28 8~729-902-99	TRANSISTOR 2SC2785-FEK TRANSISTOR 2SA1162-YG TRANSISTOR 2SC1623-L5L6 TRANSISTOR 2SC1623-L5L6 TRANSISTOR DTC114TK		JR75 JR76 JR77 JR78	1-216-295-00 1-216-295-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0 0	5% 5% 5% 5% 5%	1/10W 1/10W 1/8W 1/8W
Q1032	8-729-902-99	TRANSISTOR DTC114TK		JR79 JR80	1-216-296-00 1-216-295-00	METAL GLAZE METAL GLAZE	0	5% 5%	1/8W 1/10W



	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
JR81 JR82	1-216-295-00 1-216-295-00	METAL GLAZE	0	5% 5%	1/10W 1/10W		R310	1-216-049-00		1 K	5 %	1/10W	
JR83 JR85 JR86	1-216-296-00 1-216-296-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5% 5%	1/8W 1/8W 1/10W		R311 R312 R313	1-216-049-00 1-216-295-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 0 10 K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
JR87 JR88 JR89	1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5%	1/8W 1/8W 1/8W		R314 R315 R317	1-216-073-00 1-216-089-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 47K 220		1/10W 1/10W 1/10W	
JR90 JR92	1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE	0	5% 5% 5%	1/8W 1/8W 1/8W		R318 R319 R320	1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
JR93 JR94 JR95	1-216-296-00 1-216-296-00 1-216-296-00	METAL GLAZE METAL GLAZE METAL GLAZE	0 0 0	5% 5% 5%	1/8W 1/8W 1/8W		R321	1-216-089-00	METAL GLAZE	47K 1K		1/10W 1/10W	
R101 R102	1-216-033-00 1-216-295-00	METAL GLAZE METAL GLAZE	220	5% 5%	1/10W 1/10W		R323 R324 R325	1-216-073-00 1-216-073-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 10K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R103 R104 R105	1-216-033-00 1-216-081-00 1-216-079-00	METAL GLAZE METAL GLAZE METAL GLAZE	220 22K 18K	5% 5% 5%	1/10W 1/10W 1/10W		R326 R327	1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE	220 220	5%	1/10W 1/10W	
R106 R108	1-216-065-00 1-216-025-00	METAL GLAZE	4.7K 100	5% 5%	1/10W 1/10W		R328 R329 R330	1-216-025-00 1-216-025-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 100 100	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R109 R110 R111 R112	1-216-065-00 1-216-065-00 1-216-041-00 1-216-061-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 4.7K 470 3.3K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R331 R332 R333	1-216-025-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	100 1K 1K	5% 5%	1/10W 1/10W 1/10W	
R113 R114	1-216-075-00	METAL GLAZE METAL GLAZE	12K	5% 5%	1/10W 1/10W		R334 R335 R336	1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 K	5% 5% 5%	1/10W 1/10W 1/10W 1/10W	
R115 R116 R117	1-216-065-00 1-216-049-00 1-216-063-00	METAL GLAZE METAL GLAZE METAL GLAZE	68 4.7K 1K 3.9K	5%	1/10W 1/10W 1/10W		R337 R338	1-216-033-00 1-216-049-00	METAL GLAZE METAL GLAZE	220 1K	5% 5%	1/10W 1/10W	
R118 R119	1-216-057-00 1-216-033-00	METAL GLAZE METAL GLAZE	2.2K 220	5% 5% 5%	1/10W 1/10W		R339 R340 R341	1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 K	5% 5% 5%	1/10W 1/10W 1/10W	
R120 R121 R122	1-216-073-00 1-216-089-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 47K 2.2K	5% 5% 5%	1/10W 1/10W 1/10W		R342 R343	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE	1 K 1 K	5% 5% 5%	1/10W 1/10W	
R123 R124 R125	1-216-057-00 1-216-073-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.2K 10K 47K	5% 5%	1/10W		R344 R345 R346	1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 K	5% 5% 5%	1/10W 1/10W 1/10W	
R126 R127 R128	1-216-089-00 1-216-059-00 1-216-041-00 1-216-057-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.7K 470 2.2K	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R347 R348 R349	1-216-049-00 1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R129 R132	1-216-037-00 1-216-077-00	METAL GLAZE METAL GLAZE	330 15K	5% 5%	1/10W 1/10W		R350 R351	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE	1 K 1 K	5% 5%	1/10W 1/10W	
	1-216-059-00 1-216-041-00 1-216-025-00	METAL GLAZE METAL GLAZE METAL GLAZE	2.7K 470 100	5% 5% 5%	1/10W 1/10W 1/10W		R352 R353 R354	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R136 R137	1-216-085-00 1-216-049-00	METAL GLAZE METAL GLAZE	33K 1K	5% 5%	1/10W 1/10W		R355 R356	1-216-049-00 1-216-025-00	METAL GLAZE METAL GLAZE	1K 100		1/10W 1/10W	
R138 R139 R140	1-216-089-00 1-216-089-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 47K 1K	5% 5% 5%	1/10W 1/10W 1/10W		R357 R358 R359	1-216-049-00 1-216-049-00 1-216-081-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 2 2 K	5% 5% 5% 5%	1/10W 1/10W 1/10W	
R141 R142 R143	1-216-049-00 1-216-043-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	1K 560 1K	5% 5% 5%	1/10W 1/10W 1/10W		R360 R361 R362	1-216-081-00 1-216-081-00 1-216-039-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K 22K 390		1/10W 1/10W 1/10W	
R144 R145	1-216-049-00 1-216-071-00 1-216-055-00	METAL GLAZE METAL GLAZE	8.2K 1.8K	5% 5%	1/10W 1/10W 1/10W		R363 R364 R366	1-216-081-00 1-216-081-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	22K 22K 22C	5%%%%% 5%%%%% 5%%	1/10W 1/10W 1/10W 1/10W	
R301 R302 R303	1-216-089-00 1-216-089-00 1-216-089-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 47K 47K	5% 5% 5%	1/10W 1/10W 1/10W		R367	1-216-033-00	METAL GLAZE METAL GLAZE	220 10K		1/10W 1/10W	
R304 R305	1-216-089-00 1-216-089-00	METAL GLAZE METAL GLAZE	47K 47K	5%	1/10W 1/10W		R371 R372 R377	1-216-073-00 1-216-073-00 1-216-049-00	METAL GLAZE METAL GLAZE METAL GLAZE	10K 10K 1K	5%%%%%% 5%%%%%%%%%%%%%%%%%%%%%%%%%%%%%	1/10W 1/10W 1/10W	
R306 R307 R308	1-216-089-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	47K 220 220	5% 5% 5% 5%	1/10W 1/10W 1/10W		R378 R379	1-216-033-00 1-216-051-00	METAL GLAZE	220 1.2K	5% 5%	1/10W 1/10W	
R309	1-216-089-00	METAL GLAZE	47K	5%	1/10W		R380	1-216-295-00	METAL GLAZE	0	5%	1/10W	

KV-M1100D RM-818





REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART NO.	DESCRIPTION				REMARK
R381 R382	1-216-049-00 1-216-057-00	METAL GLAZE METAL GLAZE	1 K	5%	1/10W 1/10W		R825	1-249-449-11		1.5		1/4W F	7
R383 R384 R388	1-216-033-00	METAL GLAZE METAL GLAZE	2.2K 220 2.2K 100	5% 5% 5%	1/10W 1/10W 1/10W		R828 R831 R833	1-249-443-11 1-216-037-00 1-215-897-11	METAL GLAZE METAL OXIDE	0.47 330 6.8K 33K 2.2K	5% 5% 5%	1/4W F 1/10W 2W F	7
R389 R390 R391	1-216-025-00 1-216-025-00	METAL GLAZE	100 100	5% 5%	1/10W 1/10W		R834 R835	1-215-901-00 1-216-057-00	METAL OXIDE METAL GLAZE			2W F 1/10W	7
R391 R392 R393	1-216-049-00 1-216-049-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 1 K 1 O K	5% 5% 5%	1/10W 1/10W 1/10W		R836 R837 R838 R839	1-216-352-11 1-247-699-11 1-249-448-11 1-215-882-00	METAL OXIDE CARBON CARBON METAL OXIDE	1.8 82 1.2	5% 5% 5%	1W F 1/4W F 1/4W F 2W F	7
R394 R395 R396	1-216-073-00 1-216-049-00 1-216-049-00		10K 1K 1K	5% 5% 5%	1/10W 1/10W 1/10W		R840 R841	1-216-095-00	METAL GLAZE	22 82K 15K	5% 1%	1/10W 1/4W	
R397 R398	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE	1 K 1 K	5% 5%	1/10W 1/10W		R842 R843 R844	1-215-455-00 1-216-430-11 1-216-350-11	METAL METAL OXIDE METAL OXIDE	27K 390 1.2	1% 5% 5% 5%	1/4W 1W F 1W F	
R399 R400 R408		METAL GLAZE METAL GLAZE	100 1 K 220	5% 5% 5%	1/10W 1/10W 1/10W		R845	1-216-049-00	METAL GLAZE	1K 8.2K		1/10W	
R409 R410 R411	1-216-033-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE	220 220 220	5% 5% 5%	1/10W 1/10W 1/10W		R847 R848 R849 R850	1-216-043-00 1-216-033-00 1-215-888-00 1-216-063-00	METAL OXIDE	560 220 220 3.9K	5% 5% 5% 5%	1/10W 1/10W 2W F 1/10W	7
R412 R413 R414	1-216-065-00 1-216-065-00	METAL GLAZE METAL GLAZE METAL GLAZE	4.7K 4.7K 10K	5% 5% 5%	1/10W 1/10W 1/10W		R851 R852	1-249-400-11 1-215-473-00			5% 1%	1/4W 1/4W	
R415 R416	1-216-073-00 1-216-073-00	METAL GLAZE	10K 10K	5% 5%	1/10W 1/10W		R853 R854 R855	1-216-085-00 1-216-049-00 1-216-081-00	METAL GLAZE	33K 1K 22K	5% 5% 5%	1/10W 1/10W 1/10W	
R417 R418 R419 R420	1-216-025-00 1-216-065-00 1-216-073-00 1-216-295-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE	100 4.7K 10K 0	5% 5% 5% 5%	1/10W 1/10W 1/10W 1/10W		R857 R858 R859	1-216-089-00 1-249-437-11 1-216-073-00	CARBON	47K 47K 10K	5% 5% 5%	1/10W 1/4W 1/10W	
R421 R422	1-216-295-00 1-216-073-00	METAL GLAZE METAL GLAZE	0 10K	5% 5%	1/10W 1/10W		R860	1-216-049-00		1K	5%	1/10W 1/10W	
R423 R424 R426	1-216-067-00 1-216-089-00 1-216-073-00	METAL GLAZE METAL GLAZE METAL GLAZE	5.6K 47K 10K	5% 5% 5%	1/10W 1/10W 1/10W		SW301	<swi 1-571-532-21</swi 	TCH> -SWITCH, TACTI	l			
R427 R430	1-216-073-00 1-216-073-00	METAL GLAZE	10K 10K	5% 5%	1/10W 1/10W			<tra< td=""><td>NSFORMER></td><td></td><td></td><td></td><td></td></tra<>	NSFORMER>				
R431 R432 R433	1-216-049-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	1 K 220 220	5% 5% 5%	1/10W 1/10W 1/10W		1801	1-404-806-11 1-437-195-11	COIL TRANSFORMER, TRANSFORMER A	HORIZO	NTAL D	RIVE	Jedanie kuri
R434 R435 R436	1-216-033-00 1-216-069-00 1-216-073-00	METAL GLAZE METAL GLAZE	220 6.8K 10K	5%	1/10W 1/10W 1/10W		T803	1-424-646-11	TRANSFORMER,	FERRIT	Ë (H.P	CT)	
R438	1-216-049-00 1-216-049-00	METAL GLAZE METAL GLAZE	1 K 1 K	5% 5%	1/10W 1/10W		TU101 A	TUN> 1-465-301-11	ER> Tuner, et (uv	-816 (P	LL)))		
R439 R440 R441	1-216-049-00 1-216-033-00 1-216-033-00	METAL GLAZE METAL GLAZE	1K 220 220	5% 5% 5%	1/10W 1/10W 1/10W				BLOCK>				
R442 R443 R444	1-216-049-00 1-216-061-00 1-216-073-00	METAL GLAZE	1 K 3.3 K 10 K	5%	1/10W 1/10W 1/10W		VIF101	1-464-962-11	IF BLOCK (IFG	-389FS)		
R801 R802 R805	1-249-449-11 1-216-073-00 1-216-077-00	CARBON METAL GLAZE	1.5 10K 15K	5% 5% 5% 5%	1/4W 1/10W 1/10W	F	X301		STAL> VIBRATOR, CER	AMIC			
R806 R808	1-216-081-00 1-249-451-11	METAL GLAZE CARBON	22K 2.2		1/10W 1/4W	F			******		*****	******	******
R809 R811 R812	1-216-073-00 1-215-889-00 1-249-459-11	CARBON	10K 330 12K	5% 5% 5%	1/10W 2W 1/4W	F F	1		G BOARD, COMP	****			
R813 R817 R819	1-216-071-00 1-216-373-11 1-216-442-00	METAL OXIDE	8.2K 2.2	5% 5%		F F		*4-341- 7 52-01	EYELET (CN609 EYELET (EY601 SCREW (M3X10)	, EY602)) ₩ (+)		
R820 R824	1-216-442-00 1-216-437-91 1-247-716-11	METAL OXIDE	39K 5.6K 1.8K			F							



	PART NO.	DESCRIPTION			REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
	<cap.< td=""><td>ACITOR></td><td></td><td></td><td></td><td>! ! !</td><td></td><td></td><td></td></cap.<>	ACITOR>				! ! !			
C602 C603 C612 C613 C614	1-161-742-00 1-162-130-11 1-128-125-91 1-126-516-11 1-124-786-11	CERAMIC CERAMIC ELECT ELECT ELECT	0.0022MF 180PF 180MF 120MF 22MF	20% 10% 20% 20% 20%	400V 2KV 16V 16V 35V	D622 D623 D628 D629 D651	8-719-510-48 8-719-510-48 8-719-510-26 8-719-110-46 8-719-510-26	DIODE D1N2OR DIODE D1N2OR DIODE D1NL2O DIODE RD16ES-B3 DIODE D1NL2O	
C615 C616 C617 C618 C619	1-126-777-51 1-136-153-00 1-136-153-00 1-136-153-00	ELECT FILM FILM FILM FILM	2200MF 0.01MF 0.01MF 0.01MF 0.01MF	20% 5% 5% 5% 5%	35V 50V 50V 50V 50V	D652 D653 D654 D655 D661	8-719-510-26 8-719-510-26 8-719-510-26 8-719-109-88 8-719-510-13	DIODE D1NL20 DIODE D1NL20 DIODE D1NL20 DIODE D1NL20 DIODE RD5.6ES-B1 DIODE D1OSC4MR	
C620 C621 C622 C623 C624	1-137-189-11 1-137-189-11 1-137-189-11 1-137-189-11	FILM FILM FILM FILM FILM	0.18MF 0.18MF 0.18MF 0.18MF 0.01MF	5% 5% 5% 5% 5%	50V 50V 50V 50V 50V	D662 D665 D666 D671	4-382-854-11 8-719-510-12 8-719-025-11 8-719-025-10 8-719-110-46	SCREW (M3X10), P, SW (+); D661 DIODE D10SC4M DIODE D8LC2OUR DIODE D8LC2OU DIODE RD16ES-B3	
C625 C626 C627 C628	1-136-153-00 1-137-572-21 1-137-552-11 1-124-126-00	FILM FILM FILM ELECT	0.01MF 0.056MF 0.23MF 47MF	5% 5% 5% 20%	50V 400V 42V 25V	D672 D673 D674	8-719-911-19 8-719-510-48	DIODE D1N2OR	
C629		ELECT	120MF	20%	16V	EDC01		RITE BEAD>	
C630 C631 C632 C633 C634		ELECT ELECT ELECT ELECT CERAMIC	1200MF 470MF 100MF 100MF 0.0022MF	20% 20% 20% 20%	16V 25V 160V 25V 500V	FB602 FB603 FB604	1-412-911-11 1-412-911-11 1-412-911-11	INDUCTOR, FERRITE BEAD	
C635 C636 C637 C638 C639	1-123-379-00	FILM CERAMIC ELECT ELECT FILM	0.047MF 0.001MF 120MF 0.47MF 0.1MF	5% 20% 20% 5%	50V 500V 16V 50V 50V	FB607 FB608 FB609	1-412-911-11 1-412-911-11 1-410-396-41	INDUCTOR, FERRITE BEAD INDUCTOR, FERRITE BEAD INDUCTOR, FERRITE BEAD FERRITE BEAD INDUCTOR FERRITE BEAD INDUCTOR	
C651 C661 C662 C663 C664	1-136-129-00	FILM CERAMIC FILM CERAMIC CERAMIC	0.01MF 330PF 0.3MF 180PF 180PF	5% 10% 5% 10% 10%	50V 500V 400V 2KV 2KV		1-543-194-00 1-543-194-00 <ic></ic>		
C665 C667 C668 C669 C670	1-136-170-00 1-136-170-00	FILM FILM FILM	0.27MF 0.27MF 0.0047MF 0.0036MF 180MF	5% 5% 5% 5% 20%	50V 50V 630V 2KV 16V	10602	8-759-604-39 4-382-854-01 8-759-047-18 8-749-921-99	IC M5F78M12L SCREW (M3X8), P, SW (+); IC601 IC UPC2255H IC SI-3120CA SCREW (M3X8), P, SW (+); IC603	
	<con< td=""><td>NECTOR></td><td></td><td></td><td></td><td></td><td>1-809-703-11 1-809-704-11</td><td>MODULE, POWER DM-46 MODULE, POWER DM-45</td><td></td></con<>	NECTOR>					1-809-703-11 1-809-704-11	MODULE, POWER DM-46 MODULE, POWER DM-45	
CN604 *	*1-508-765-00 *1-580-838-11	PIN, CONNECTO	OR (5MM PITC OR (PC ROARD	CH) 3P			<c011< td=""><td></td><td></td></c011<>		
CN606 ×	*1-564-506-11 *1-564-511-11	PLUG, CONNEC' PLUG, CONNEC' PLUG, CONNEC'	TOR 3P TOR 8P	,		L602	1-412-533-21	_	
CN610 *	*1-564-507-11	PLUG, CONNECT	TOR 4P				<tra< td=""><td>NSISTOR></td><td></td></tra<>	NSISTOR>	
CMOTI	*1-564-321-00 <dio< td=""><td></td><td>UK ZP</td><td></td><td></td><td>Q601 Q602 Q603</td><td>8-729-010-85</td><td>TRANSISTOR 2SC4833 TRANSISTOR 2SC4833 TRANSISTOR 2SC4876</td><td></td></dio<>		UK ZP			Q601 Q602 Q603	8-729-010-85	TRANSISTOR 2SC4833 TRANSISTOR 2SC4833 TRANSISTOR 2SC4876	
D602		DIODE D1N2OR				Q604 Q605	8-729-011-74	TRANSISTOR 2SC4876 TRANSISTOR 2SC4876	
D603 D604 D615 D616	8-719-510-48 8-719-510-48 8-719-911-19 8-719-510-48	DIODE D1N2OR DIODE D1N2OR DIODE 1SS119 DIODE D1N2OR				Q606 Q607 Q608	8-729-920-92 8-729-920-92	TRANSISTOR 2SC4876 TRANSISTOR 2SD2096-EF TRANSISTOR 2SD2096-EF	
D617 D618	8-719-510-48 8-719-510-48	DIODE D1N2OR DIODE D1N2OR				Q610 Q611	8-729-122-12	TRANSISTOR 2SA1221-L TRANSISTOR 2SD2096-EF	
D619 D620	8-719-510-48 8-719-510-48 8-719-510-48	DIODE DINZOR DIODE DINZOR DIODE DINZOR DIODE DINZOR				0671 0672	8-729-119-76 8-729-119-76	TRANSISTOR 2SA1175-HFE TRANSISTOR 2SA1175-HFE	

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REF.NO.	PART NO.	DESCRIPTION				REMARK	REF. NO	. PART NO.	DESCRIPTION	***************************************	REMARK
	<res< td=""><td>ISTOR></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></res<>	ISTOR>									
R603 R604 R605 R606 R607	1-215-859-00 1-215-859-00 1-202-844-00 1-202-844-00 1-215-859-00	METAL OXIDE METAL OXIDE SOLID SOLID METAL OXIDE	22 22 330K 330K 22	5% 5% 10% 10% 5%	1W 1W 1/2W 1/2W 1W	7 9	***** 	*1-642-571-11	G1 BOARD ********* EYELET (EY690, EY691)	*****	*********
R608 R609	1-216-341-11 1-216-341-11		0.22 0.22	5% 5%	1 W 1 W	F F		<con< td=""><td>INECTOR></td><td></td><td></td></con<>	INECTOR>		
R610 R611 R613	1-249-429-11 1-249-429-11 1-216-341-11	CARBON CARBON METAL OXIDE	10K 10K 0.22	5% 5% 5%	1/4W 1/4W 1W	F	CN612	*1-564-517-11	PLUG, CONNECTOR 2P		
R614 R615	1-216-341-11 1-216-341-11	METAL OXIDE	0.22 0.22	5% 5%	1 W 1 W	F F	† 	<d10< td=""><td>DDE></td><td></td><td></td></d10<>	DDE>		
R616 R617 R618	1-216-354-11	METAL OXIDE METAL OXIDE METAL OXIDE	0.22 2.7 0.68	5% 5% 5%	1 W 1 W 1 W	F F	D691	8-719-911-19	DIODE 1SS119		
R619	1-216-354-11	METAL OXIDE	2.7	5% 5%	1 W	F F	nucha	<rel< td=""><td></td><td>. 7615 4 1 4 604</td><td>Direction of the second</td></rel<>		. 7615 4 1 4 604	Direction of the second
R620 R626 R627	1-249-425-11	METAL OXIDE CARBON	2.7 18 4.7K	5% 5%	1W 1W 1/4W	r F			RELAY, POWER	1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
R628 R629	1-249-425-11 1-249-413-11	CARBON CARBON	4.7K 470	5% 5%	1/4W 1/4W	F		*A-1331-179-A	C BOARD, COMPLETE		
R630 R631 R633 R634	1-249-405-11 1-249-405-11 1-218-268-51 1-218-268-51	CARBON CARBON METAL	100 100 0.47 0.47	5%%%%% 5%%%%%% 5%%	1/4W 1/4W 1/2W 1/2W	F		<cap< td=""><td>ACITOR></td><td></td><td></td></cap<>	ACITOR>		
R635 R636 R637	1-249-394-11 1-249-405-11 1-216-422-11	CARBON	12 100 18	5% 5% 5%	1/4W	F F F	C701 C702 C703 C704	1-163-134-00	CERAMIC CHIP 470PF CERAMIC CHIP 510PF CERAMIC CHIP 470PF CERAMIC CHIP 470PF	5% 5% 5% 10%	50V 50V 50V 50V
R638 R639	1-249-377-11	CARBON CARBON	0.47 2.7K	5% 5%	1/4W 1/4W		C705	1-163-005-11	CERAMIC CHIP 470PF	10%	50V
R651 R652 R653	1-249-396-11 1-249-421-11 1-249-418-11	CARBON CARBON	18 2.2K 1.2K	5% 5% 5%	1/4W 1/4W 1/4W	F	C706 C707 C708 C709	1-163-009-11	ELECT 47MF CERAMIC CHIP 0.001MF CERAMIC CHIP 0.001MF	10% 20% 10% 10%	50V 16V 50V 50V
R661 R671	1-215-857-11 1-249-424-11	METAL OXIDE CARBON	10 3.9K	5% 5%	1W 1/4W	F	C710	1-163-009-11 1-162-116-00	CERAMIC CHIP 0.001MF CERAMIC 680PF	10% 10%	50V 2KV
R672 R673 R674	1-249-420-11 1-249-418-11 1-249-421-11	CARBON CARBON CARBON	1.8K 1.2K 2.2K	5% 5% 5%	1/4W 1/4W 1/4W		C712 C713 C714	1-102-050-00	CERAMIC 0.01MF CERAMIC 0.0047MF ELECT 47MF	20%	500V 2KV 16V
R675 R676	1-249-424-11 1-249-421-11	CARBON	3.9K 2.2K	5% 5%	1/4W 1/4W		C715	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25 V
R677 R678 R679	1-249-429-11 1-249-429-11 1-249-424-11	CARBON CARBON	10K 10K 3.9K	5% 5% 5%	1/4W 1/4W 1/4W		C716 C717 C718	1-126-233-11	CERAMIC CHIP 0.1MF ELECT 22MF CERAMIC CHIP 100PF	10% 20% 5%	25V 50V 50V
R680 R681	1-249-421-11 1-217-418-00	CARBON FUSIBLE	2.2K 0.47	5% 10%	1/4W 1/2W	F		< CON	NECTOR>	•	
R682	1-249-399-11	CARBON	33	5%	1/4W	F			PLUG, CONNECTOR 6P PLUG, CONNECTOR 7P		
Dec.	<rel< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td><d10< td=""><td>DE></td><td></td><td></td></d10<></td></rel<>							<d10< td=""><td>DE></td><td></td><td></td></d10<>	DE>		
KY602 A	1-515-888-11	RELAY					D701 D702		DIODE MA152WK DIODE MA152WK		
T603 ∧		NSFORMER> Transformer,	FERRIT	E (SRT	'-1R)		D703 D704 D705	8-719-400-18 8-719-400-18 8-719-400-18	DIODE MA152WK DIODE MA152WK DIODE MA152WK		
T604 A T605 A	1-450-862-11 1-437-213-11	TRANSFORMER, TRANSFORMER, TRANSFORMER,	CONVER	TER (PE TER DE	(T1-B) (IVE		D706 D707 D708	8-719-400-18 8-719-911-19 8-719-911-19	DIODE MA152WK DIODE 1SS119		
	< V A R	ISTOR>					D709	8-719-911-19	DIODE 1SS119		
VDR601 VDR602	∆ 1-809-679-11 ∆ 1-809-678-11	VARISTOR VARISTOR			l. Arc		!	<jac< td=""><td>K></td><td></td><td></td></jac<>	K>		
		Trible Of Off					1				

The components identified by shading and mark Λ are cirtical for safety.

Replace only with part number specified.

C H1

H2

H3

J1

J3

J4

REF.NO.	PART NO.	DESCRIPTION				REMARK	REF.NO.	PART	NO.	DESCRIPTIO	N -			REMARK
J701	1-526-958-21	SOCKET, PICTU	RE TUB	E			1		< D16	DDE>				
	<tra< td=""><td>NSISTOR></td><td></td><td></td><td></td><td></td><td>D401</td><td>8-719 4-035</td><td>9-907-87 5-418-01</td><td>DIODE PR563: HOLDER, LED</td><td>SS ; D401</td><td></td><td></td><td></td></tra<>	NSISTOR>					D401	8-719 4-035	9-907-87 5-418-01	DIODE PR563: HOLDER, LED	SS ; D401			
0701 0702 0703 0704 0705	8-729-230-49 8-729-230-49	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	C2712- C2712- C2611	· Y G			10401	8-749	<103 9-900-36	IC BX-1393				
Q706 Q707 Q708 Q709 Q710	8-729-326-11 8-729-200-17 8-729-200-17 8-729-200-17 8-729-209-03	TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S	A1091- A1091- A1091-	·0 ·0					5-039-00 5-033-00	SISTOR> METAL GLAZE METAL GLAZE			1/10 1/10	W
Q711	8-729-230-46	TRANSISTOR 2S	A1162-	YG						H2 BOARD	*****	*****	*****	******
	<res< td=""><td>ISTOR></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>******</td><td></td><td></td><td></td><td></td></res<>	ISTOR>								******				
R701 R702 R703 R704 R705	1-216-017-00 1-249-412-11 1-216-049-00 1-216-009-00 1-249-412-11	CARBON METAL GLAZE	47 390 1K 22 390	5% 5% 5%	1/10W 1/4W 1/10W 1/10W 1/4W		CN402	* 1−564	4-517-11	NNECTOR> PLUG, CONNE	CTOR 2P			
R706 R707 R708 R709 R713	1-216-049-00 1-216-017-00 1-249-412-11 1-249-417-11 1-216-049-00	METAL GLAZE METAL GLAZE CARBON CARBON METAL GLAZE	1K 47 390 1K 1K	5% 5% 5% 5%	1/10W 1/10W 1/4W 1/4W 1/4W		*****	*****	I-937-21 *******	TCH> SWITCH, KEY				
R715 R717 R718 R719 R720	1-216-049-00 1-216-049-00 1-216-463-00 1-216-463-00 1-216-463-00	METAL GLAZE METAL GLAZE METAL OXIDE METAL OXIDE METAL OXIDE	1K 1K 12K 12K 12K	555555555555555555555555555555555555555	2W	F F			< C 0)	H3 BOARD ********				
R721 R722 R723 R724 R725	1-202-824-00 1-202-824-00 1-202-824-00 1-202-842-11 1-202-719-00	SOLID SOLID SOLID SOLID SOLID	3.3K 3.3K 3.3K 220K 1M	10% 10%	1/2W 1/2W 1/2W 1/2W 1/2W				<\$W]	PLUG, CONNECTOR'S TCH SWITCH, KEY				
R726 R728 R729 R730 R731	1-202-838-00 1-249-415-11 1-249-433-11 1-216-025-00 1-216-025-00	SOLID CARBON CARBON METAL GLAZE METAL GLAZE	100K 680 22K 100 100	10% 5% 5% 5%	1/2W 1/4W 1/4W 1/4W 1/10W 1/10W			*1-641	1-502-11	J1 BOARD ********				
R732 R733 R734 R735 R736	1-216-025-00 1-249-423-11 1-216-043-00 1-249-417-11 1-249-389-11	METAL GLAZE CARBON METAL GLAZE CARBON CARBON	100 3.3K 560 1K 4.7	5%% 5%% 5%% 5%%	1/10W 1/4W 1/10W 1/4W 1/4W			*1-641	I-505-11	J3 BOARD *******				
R737	1-249-438-11	CARBON	56K	5%	1/4W			*1~641	1-506-12	J4 BOARD ******				
	*********		*****	*****	******	******	!		20AT	MCITOD.				
	*1-641-499-11	*******					C501	1-136	CAF 6-165-00	ACITOR> FILM	0.1MF		5% 5%	50 V
	<con< td=""><td>NECTOR></td><td></td><td></td><td></td><td></td><td>£ 0502</td><td>1-136</td><td>5~165-00</td><td>FILM</td><td>0.1MF</td><td></td><td>5%</td><td>50V</td></con<>	NECTOR>					£ 0502	1-136	5~165-00	FILM	0.1MF		5 %	50V
CN401	*1-564-519-11	PLUG, CONNECT	OR 4P						<00	INECTOR>				
	<com< td=""><td>POSITION CIRCU</td><td>IT BLO</td><td>OCK></td><td></td><td></td><td>CN502</td><td>*1-580</td><td>0-838-11</td><td>PIN, CONNECT</td><td>OR (PC</td><td>BOARD)</td><td>4P</td><td></td></com<>	POSITION CIRCU	IT BLO	OCK>			CN502	*1-580	0-838-11	PIN, CONNECT	OR (PC	BOARD)	4P	
CP401	1-232-680-11	COMPOSITION C	IRCU11	BLOCK					<d10< td=""><td>DE></td><td></td><td></td><td></td><td></td></d10<>	DE>				
							D501	8-719	9-912-51	DIODE ESAC2	5-04C			

J4

J2



The components identified by shading and mark extstyle extstyle

specified.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	. PART NO.	DESCRIPTION	specific		REMARK
D502 D503	8-719-931-35	DIODE ESAC25-04C DIODE EQB01-35		R517 R518	1-216-089-00 1-216-172-00	METAL GLAZE	47K 5% 82 5%	1/10W 1/8W	
n pakadan di la - III	<fus< td=""><td></td><td></td><td>į.</td><td>**********</td><td></td><td></td><td>******</td><td>*******</td></fus<>			į.	**********			******	*******
P501 /	1- 532-279-11 1-533-223-11	FUSE, TIME-LAG 0.5A/250V CLIP, FUSE; F501		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	*A-1394-338-A	Y BOARD, COMI			
	<01	I>		!	*4-341-751-01	EYELET (EY20) EY607, EY610, E	1~EY203, EY6 FY611 FY613	01,EY602 FY614 F	,EY606, Y617~
L501	1-424-648-11	TRANSFORMER, LINE FILTER (LFT)	3	*4-341-752-01	EY620, EY625~I EYELET (EY615	EY628, EY631 5, EY616, EY6	, EY636) 29, EY630	,EY632~
				1		EY635)			
Q501		NSISTOR> TRANSISTOR 2SA1329-0		· ·	<cap< td=""><td>ACITOR></td><td></td><td></td><td></td></cap<>	ACITOR>			
€301	a 129-200-00	TRANSISION 2581525 0		C201 C202	1-124-557-11 1-164-004-11			20% 1 0%	25V 25V
	<res< td=""><td>ISTOR></td><td></td><td>C203 C204</td><td>1-124-557-11 1-164-004-11</td><td>ELECT CERAMIC CHIP</td><td>1000MF 0.1MF</td><td>20% 10%</td><td>25V 25V</td></res<>	ISTOR>		C203 C204	1-124-557-11 1-164-004-11	ELECT CERAMIC CHIP	1000MF 0.1MF	20% 10%	25V 25V
R501 R502	1-249-427-11 1-249-409-11	CARBON 6.8K 5% 1/4 CARBON 220 5% 1/4 METAL OXIDE 6.8 5% 1W	W	€205	1-124-477-11	ELECT	47MF	20%	16V
R503 R504	1-216-359-00 1-216-359-00	METAL OXIDE 6.8 5% 1W METAL OXIDE 6.8 5% 1W	F F	C206 C208		CERAMIC CHIP		20% 10%	16V 25V
*****	*******	**********	*******	C209 C210 C211	1-124-234-00 1-136-165-00 1-163-141-00	ELECT FILM CERAMIC CHIP	22MF 0.1MF	20% 5% 5%	16V 50V 50V
	*1-641-503-11	J2 BOARD		C212	1-136-165-00	FILM	0.1MF	5% 5%	50V
				C213 C214	1-124-903-11 1-102-121-00	ELECT CERAMIC	1MF 0.0022MF	20% 10%	50V 50V
0510		ACITOR>		C215 C216	1-130-491-00 1-136-165-00	MYLAR FILM	0.047MF 0.1MF	5 % 5 %	50V 50V
C510 C511	1-124-477-11 1-124-477-11	ELECT 47MF 20%	16V 16V	C217	1-102-114-00		470PF	10%	50V
C512 C513 C514	1-124-477-11 1-163-009-11 1-163-005-11	ELECT 47MF 20% CERAMIC CHIP 0.001MF 10% CERAMIC CHIP 470PF 10%	16V 50V 50V	C218 C219 C220		CERAMIC CERAMIC ELECT	470PF 470PF 330MF	10% 10% 20%	50V 50V 16V
0314	1 100 000 11	CERTIFIC CHIL 41001 10%	301	C221	1-124-477-11	ELECT	47MF	20%	16V
		NECTOR>		C222 C223	1-126-160-11 1-126-163-11	ELECT	1MF 4.7MF	20% 20%	50V 25V
CN501	*1-564-525-11	PLUG, CONNECTOR 10P		C224 C225	1-124-477-11 1-126-101-11	ELECT	47MF 100MF	20% 20%	16V 16V
	<dio< td=""><td>DE></td><td></td><td>C227</td><td>1-126-233-11 1-124-479-11</td><td>ELECT</td><td>22MF 330MF</td><td>20% 20%</td><td>50V 25V</td></dio<>	DE>		C227	1-126-233-11 1-124-479-11	ELECT	22MF 330MF	20% 20%	50V 25V
D510 D511	8-719-110-30 8-719-110-30	DIODE RD12ES-B1 DIODE RD12ES-B1		C229 C230	1-164-004-11 1-126-103-11	CERAMIC CHIP		10% 20%	25V 16V
D512 D513	8-719-110-30	DIODE RD12ES-B1 DIODE RD12ES-B1		C231 C232	1-101-006-00 1-101-006-00	CERAMIC CERAMIC	0.047MF 0.047MF	20%	50V 50V
	. ***	P ₂		C233	1-101-006-00	CERAMIC	0.047MF	008	50V
J510	<jac 1-562-837-21</jac 	K> Jack		C234 C235	1-124-477-11 1-124-589-11 A.1-136-360-51	ELECT ELECT Englisher (1987)	47MF 47MF 0.22MF	20% 20% - 20%	16V 16V 250V
J511 J512	1-565-666-12 1-563-500-21	TERMINAL, S 4P JACK BLOCK, PIN (L TYPE) 2P			&1-164-246-11		0.0022MF	20%	400v
	1 303 300 21	Office Bushes, The (E-1112) 21		C607	<u>M</u> 1-136-360-51 M1-161-964-61	CERAMIC	0.22MF 0.0047MF	20%	250V 250V
1510	<001				<u>∧</u> 1-161-964-61 <u>∧</u> 1-162-578-51		0.0047MF 0.0047MF	20%	250V 400V
L510 L511	1-408-397-00 1-408-409-00	INDUCTOR 1UH INDUCTOR 1OUH			∆ 1-125-497-11				400V
L512	1-408-409-00	INDUCTOR 10UH		CULL	∆ 1-161-964-61	· connect to the second	o.vuq(Mr	5,7680, 83 1 (1990))	250V
5 -	< RES	ISTOR>				NECTOR>			
R510 R511	1-247-741-11 1-216-049-00	CARBON 150 5% 1/2 METAL GLAZE 1K 5% 1/1	OW		1-561-534-00 *1-564-515-11	PLUG, CONNECT			
R514 R515 R516	1-216-172-00 1-249-404-00	METAL GLAZE 82 5% 1/8 CARBON 82 5% 1/4 METAL GLAZE 15K 5% 1/1	W			PLUG, CONNECT PLUG, CONNECT			
"710	1-216-077-00	METAL GLAZE 15K 5% 1/1	UW	1					



REF.NO. PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION		REMARK
CN204 *1-564-513-11 CN205 *1-564-505-11 CN206 *1-564-506-11 CN601 *1-580-843-11 CN602 *1-508-786-00	PLUG, CONNECTOR 10P PLUG, CONNECTOR 2P PLUG, CONNECTOR 3P PIN, CONNECTOR (POWER) PIN, CONNECTOR (5MM PITCH) 2P		R206 R207 R208 R209 R210	1-216-059-00 1-247-738-11 1-216-065-00 1-216-053-00 1-216-105-00	METAL GLAZE CARBON METAL GLAZE METAL GLAZE METAL GLAZE	2.7K 5% 82 5% 4.7K 5% 1.5K 5% 220K 5%	1/10W 1/2W F 1/10W 1/10W 1/10W
CN603 *1-508-765-00 < DIO	PIN, CONNECTOR (5MM PITCH) 3P DE>		R211 R212 R213 R214 R215	1-216-295-00 1-249-387-11 1-249-417-11 1-249-438-11 1-249-404-00	METAL CLASE	n 5%	1/10W 1/4W 1/4W 1/4W 1/4W
D202 8-719-110-30 D203 8-719-110-13 D204 8-719-911-19 D205 8-719-109-85 D206 8-719-110-30	DIODE RD12ES-B1 DIODE RD9.1ES-B2 DIODE 1SS119 DIODE RD5.1ES-B2 DIODE RD12ES-B1		R216 R218 R219 R220 R221	1-249-404-00 1-249-404-00 1-249-404-00 1-249-403-11 1-216-033-00	CARBON CARBON CARBON CARBON	82 5% 82 5% 82 5% 68 5% 220 5%	1/4W 1/4W 1/4W 1/4W 1/10W
D207 8-719-110-30 D208 8-719-110-30 D209 8-719-110-30 D210 8-719-110-30 D211 8-719-110-30	PIN, CONNECTOR (5MM PITCH) 2P PIN, CONNECTOR (5MM PITCH) 3P DIODE RD12ES-B1 DIODE RD9.1ES-B2 DIODE RD5.1ES-B2 DIODE RD12ES-B1		R222 R223 R224 R225 R227	1-216-059-00 1-216-041-00 1-216-033-00 1-216-057-00 1-216-047-00		2.7K 5% 470 5% 220 5% 2.2K 5% 820 5%	1/10W 1/10W 1/10W 1/10W 1/10W
D212 8-719-110-30 D213 8-719-110-30 D214 8-719-911-19 D215 8-719-400-18 D601 A 8-719-510-53	DIODE RD12ES-B1 DIODE RD12ES-B1 DIODE 1SS119 DIODE MA152WK DIODE D4SB6OL		R228 R229 R230 R231 R232	1-216-089-00 1-216-295-00 1-216-023-00 1-216-295-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE METAL GLAZE		1/10W 1/10W 1/10W 1/10W 1/10W
1-555-225-11	FUSE (H.B.C.) 3.15A/250V CLIP, FUSE; F601		R234 R235 R236	1-216-049-00 1-216-049-00 1-216-021-00 1-249-417-11 1-249-417-11	METAL GLAZE	1K 5% 1K 5% 68 5% 1K 5% 1K 5%	1/10W 1/10W 1/10W 1/4W 1/4W
<pre>FL201 1-424-261-11 FL202 1-424-261-11</pre>	TER> FILTER, SIGNAL LINE NOISE		R238 R239 R240	1-216-063-00 1-216-085-00 1-216-033-00	METAL GLAZE METAL GLAZE METAL GLAZE	3.9K 5% 33K 5% 220 5% 10K 5% 10K 5%	1/10W 1/10W 1/10W
FL203 1-424-261-11 FL204 1-424-261-11 FL205 1-424-261-11	FILTER, SIGNAL LINE NOISE FILTER, SIGNAL LINE NOISE FILTER, SIGNAL LINE NOISE		R241 R242	1-216-073-00 1-216-073-00 1-216-073-00	METAL GLAZE		1/10W
FL206 1-424-261-11 <1C>	TER> FILTER, SIGNAL LINE NOISE		R245 R246 R247 R249	1-216-073-00 1-216-049-00 1-216-049-00 1-216-025-00	METAL GLAZE	10K 5% 10K 5% 1K 5% 1K 5% 100 5%	1/10W 1/10W 1/10W 1/10W
IC201 8-752-053-17 IC202 8-759-041-82	IC CXA1114P IC TDA1013B		R250 R251 R252	1-216-073-00 1-216-089-00 1-216-025-00 1-216-049-00 1-216-049-00	METAL GLAZE	10K 5% 47K 5% 100 5% 1K 5% 1K 5%	1/10W 1/10W 1/10W 1/10W 1/10W
<001 L201 1-412-533-21			R601 4 R603	1-205-909-11 1-249-443-11	WIREWOUND CARBON	3.3 5% 0.47 5%	10 0 F 1/4W F
<transistor></transistor>		<relay></relay>					
Q201 8-729-120-28 TRANSISTOR 2SC1623-L5L6 Q203 8-729-230-46 TRANSISTOR 2SA1162-YG Q204 8-729-120-28 TRANSISTOR 2SC1623-L5L6		T601 & 1-424-391-11 TRANSFORMER, LINE FILTER T602 & 1-424-391-11 TRANSFORMER, LINE FILTER					
Q205 8-729-230-46 TRANSISTOR 2SA1162-YG Q206 8-729-119-79 TRANSISTOR 2SC2785-FEK Q207 8-729-230-46 TRANSISTOR 2SA1162-YG							
<resistor></resistor>			<thermistor></thermistor>				
JR200 1-216-296-00 R201 1-216-295-00 R202 1-216-049-00 R204 1-216-049-00 R205 1-216-055-00	THP601 A 1 806-165-12 THERMISTOR (POSITIVE) TTAL GLAZE 0 5% 1/10W TTAL GLAZE 1K 5% 1/10W TTAL GLAZE 1K 5% 1/10W TTAL GLAZE 1K 5% 1/10W						

KV-M1100D RM-818



REF.NO. PART NO.

DESCRIPTION

REMARK

REMARK

*9-902-396-01 PW BOARD

9-902-398-01 SWITCH, TACTIL

MISCELLANEOUS

Δ1-426-590-11 COIL, DEMAGNETIZATION
Δ1-451-354-11 DEFLECTION YOKE (Y11SLA)
1-452-094-00 MAGNET, ROTATABLE DISK; 15MM φ
1-452-512-11 MAGNET
1-466-678-11 SWITCH BLOCK

J501 Δ1-540-054-11 INLET, AC
1-561-530-00 CONNECTOR (DC POWER)

SP901 1-544-187-11 SPEAKER
V901 Δ8-735-821-05 PICTURE TUBE (A27KGC10X)

ACCESSORIES AND PACKING MATERIALS

DESCRIPTION

1-501-397-41	ANTENNA, TELESCOPIC (AN-18G
A 1-532-325-11	FUSE, TIME-LAG 6.3A/250V
Д1-690-827-11	CORD SET, POWER CORD, DC POWER
A1-690-828-11 * 3-704-301-01	BAG (STANDARD), PROTECTION
79 104 901 01	

PART NO.

3-754-681-11 MANUAL, INSTRUCTION *4-035-665-01 CUSHION (UPPER) (ASSY) *4-035-666-01 CUSHION (LOWER) (ASSY) *4-035-667-01 TRAY *4-035-675-01 INDIVIDUAL CARTON

REMOTE COMMANDER

1-693-075-11 REMOTE COMMANDER (RM-818) 9-900-029-01 COVER, BATTERY (FOR RM-818)